



Homeland Security

November 13, 2009

Nogales-Rochin Public Library
Attn: Librarian
518 North Grand Avenue
Nogales, Arizona, 85621
(520) 287-3343

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Librarian:

U.S. Customs and Border Protection (CBP) requests that your library make available to the public the enclosed *Draft Supplemental Environmental Assessment for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona*, and the related proposed *Finding of No Significant Impact*, for a 30-day public review period. Please place a copy of this letter and the draft Supplemental Environmental Assessment (SEA) in a location that facilitates public review. The public comment period begins November 20, 2009 and all comments must be received no later than December 21, 2009.

In support of the Secure Border Initiative program, on November 20, 2009, CBP is publishing a Notice of Availability for the draft SEA. The draft SEA identifies and assesses the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communications towers, vehicles, supporting infrastructure components, and technological improvements to existing facilities within the Tucson Sector. The location for the Proposed Action is along approximately 56 miles of the U.S./Mexico international border within the Tucson Sector, Arizona.

The enclosed document is also available to the public by:

- (a) Downloading from the Internet at www.cbp.gov/sbi under the link SBI NEPA Documents for Public Review and Comment
- (b) E-mailing a request to NGLSONSEAcumments@cbp.dhs.gov
- (c) Writing to Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBInet Program Management Office, 1901 S. Bell Street, Room 7-090, Arlington, VA 22202

(d) Faxing a request to (571) 468-7390, Attn: Ms. Patience Patterson
Public comments on the enclosed documents, or questions about them can be submitted by:

- (a) E-mail to: NGLSONSEAcumments@cbp.dhs.gov
- (b) Mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security,
U.S. Customs and Border Protection, SBInet Program Management Office, 1901
S. Bell Street, Room 7-090, Arlington, VA 22202
- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

I appreciate your assistance with our efforts to invite public involvement in our decision making process.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Ms. Jody Latimer
Manager
Arizona State Land Department
Natural Resource Conservation Division
1616 West Adams Street
Phoenix, Arizona 85007

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Latimer:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

The purpose of the Proposed Action is to further CBP's ability to gain operational control of the Nation's borders by providing 24-hour, year-round surveillance capabilities that will help deter illegal entry attempts into the U.S., and enable CBP agents to detect, analyze, and rapidly respond to illegal cross border activity.

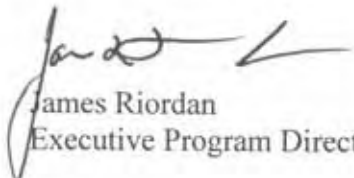
The draft SEA was prepared in compliance with provisions of the National Environmental Policy Act (NEPA) of 1969 as amended (42 United State Code 4321, et seq.), the Council on Environmental Quality's NEPA implementing regulations at 40 Code of Federal Regulations Part 1500 et seq., and the U.S. Department of Homeland Security's *Management Directive 023-01, Environmental Planning Program*.

CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Ms. Laura Canaca
Project Evaluation Program Supervisor
Arizona Game and Fish
Habitat Branch-Project Evaluation Program
2221 West Greenway Road
Phoenix, Arizona 85023

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Canaca:

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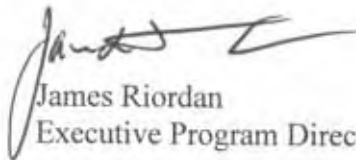
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland Security

November 13, 2009

Ms. Leesa Morrison
Homeland Security Advisor - Arizona
Arizona Department of Homeland Security
1700 West Washington
Phoenix, Arizona 85007

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Morrison:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

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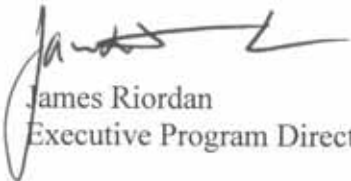
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Steve Owens
ADEQ Director
Arizona Department of Environmental Quality
Southern Region Office
400 West Congress
Suite 433
Tucson, Arizona 85701

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mr. Owens:

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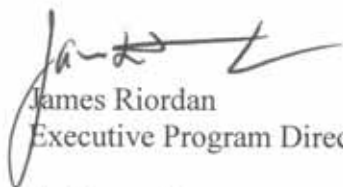
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland Security

November 13, 2009

The Honorable Ignacio Barrazo
Mayor
City of Nogales
777 North Grand Avenue
Nogales, Arizona 85621

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mayor Barrazo:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

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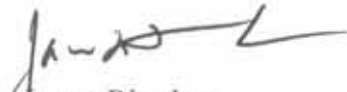
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Sincerely,


James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Kent Ellet
Acting District Ranger
U.S. Forest Service
Nogales Ranger District
303 Old Tucson Road
Nogales, Arizona 85621

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mr. Ellet:

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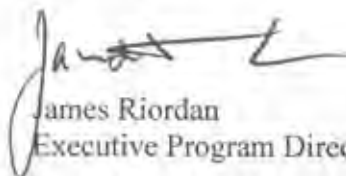
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Garrison
SHPO
Arizona State Parks
Attn: Ms. JoAnne Medley
1300 West Washington Street
Phoenix, Arizona 85007

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mr. Garrison:

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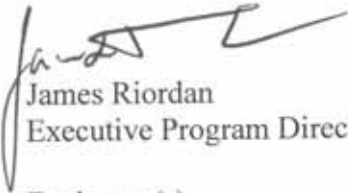
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Ms. Sherry Barrett
Assistant Field Supervisor for Southern Arizona
U.S. Fish and Wildlife Service
110 South Church Avenue
Suite 3450
Tucson, Arizona 85701

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Barrett:

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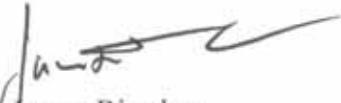
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland Security

November 13, 2009

The Honorable John McCain
Senator (Arizona)
United States Senate
241 Russell Senate Building
Washington, DC 20510-0303

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Senator McCain:

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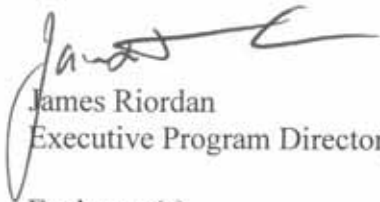
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James Riordan
Executive Program Director, SBInet

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Homeland Security

November 13, 2009

The Honorable Jon Kyl
Senator (Arizona)
United States Senate
730 Hart Senate Office Building
Washington, DC 20510-0304

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Senator Kyl:

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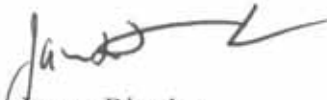
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Homeland Security

November 13, 2009

The Honorable Raul Grijavla
Representative (Arizona - 7th)
United States House of Representatives
1440 Longworth House Office Building
Washington, DC 20510-0307

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Representative Grijalva:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

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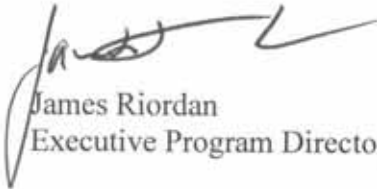
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- (b) Mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBInet Program Management Office, 1901 S. Bell Street, Room 7-090, Arlington, VA 22202
- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland Security

November 13, 2009

The Honorable Gabrielle Giffords
Representative (Arizona - 8th)
United States House of Representatives
502 Cannon House Office Building
Washington, DC 20510-0308

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Representative Giffords:

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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Greg Lucero
County Manager
Santa Cruz County
2150 N. Congress Drive, Nogales, AZ 85621

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mr. Lucero:

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James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Herb Guenther
Director
Santa Cruz Active Management Area
857 West Bell Road
Suite 3
Nogales, Arizona 85621

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mr. Guenther:

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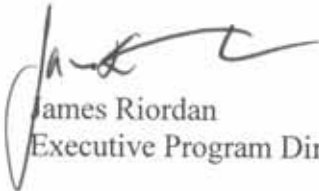
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Ms. Karen Vitulano
U.S. Environmental Protection Agency
Region 9
Environmental Review Office, Mail Code CED-2
75 Hawthorne Street
San Francisco, California 94105-3901

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBI^{net} Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Vitulano:

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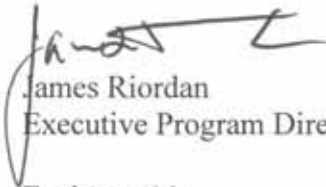
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Nova Blazej
Manager Environmental Review Office Coordinator
U.S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, California 94105

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mr. Blazej:

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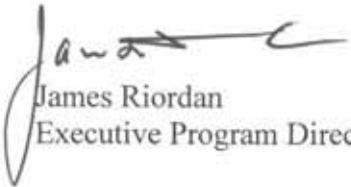
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Ms. Laura Yoshii
Acting Regional Administrator
U.S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, California 94105

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Yoshii:

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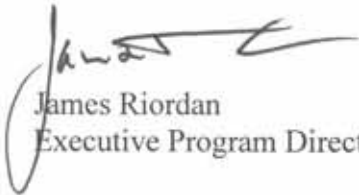
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Steve Spangle
Field Supervisor
U.S. Fish and Wildlife Service
2321 West Royal Palm Road
Suite 103
Phoenix, Arizona 85021-4951

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

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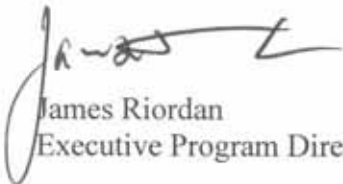
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James Riordan
Executive Program Director, SBInet

Enclosure(s)



**Homeland
Security**

November 13, 2009

Mr. Michael Horton
National Section 7 Coordinator
U.S. Fish and Wildlife Service
4401 North Fairfax Drive
Suite 420
Arlington, Virginia 22203

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

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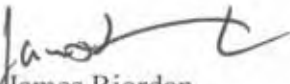
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Sincerely,


James Riordan

Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Dr. Benjamin Tuggle
Regional Director
U.S. Fish and Wildlife Service
Southwest Region (Region 2)
P.O. Box 1306
Albuquerque, New Mexico 87103-1306

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Dr. Tuggle:

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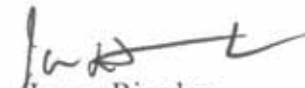
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



**Homeland
Security**

November 13, 2009

Mr. Benjamin H. Grumbles
Director
Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, Arizona 85007

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

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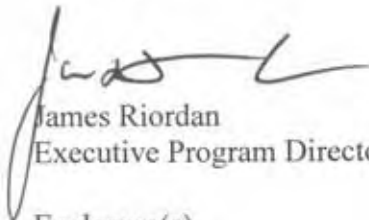
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Keith Graves
Border Liason-Coronado N.F.
U.S. Forest Service
Secure Border Initiative/SBInet
300 W. Congress
Tucson, Arizona 85701

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

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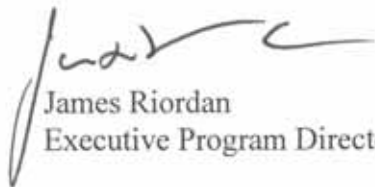
The draft SEA was prepared in compliance with provisions of the National Environmental Policy Act (NEPA) of 1969 as amended (42 United State Code 4321, et seq.), the Council on Environmental Quality's NEPA implementing regulations at 40 Code of Federal Regulations Part 1500 et seq., and the U.S. Department of Homeland Security's *Management Directive 023-01, Environmental Planning Program*.

CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

- (a) E-mail to: NGLSONSEAcumments@cbp.dhs.gov
- (b) Mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBInet Program Management Office, 1901 S. Bell Street, Room 7-090, Arlington, VA 22202
- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Ms. Kathy Pedrick
Special Assistant for International Programs
Bureau of Land Management, U.S. Department of Interior
Federal Building, CNF Sixth Floor, #6V3
300 West Congress
Tucson, Arizona 85701

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Pedrick:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

The purpose of the Proposed Action is to further CBP's ability to gain operational control of the Nation's borders by providing 24-hour, year-round surveillance capabilities that will help deter illegal entry attempts into the U.S., and enable CBP agents to detect, analyze, and rapidly respond to illegal cross border activity.

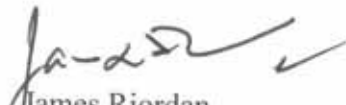
The draft SEA was prepared in compliance with provisions of the National Environmental Policy Act (NEPA) of 1969 as amended (42 United State Code 4321, et seq.), the Council on Environmental Quality's NEPA implementing regulations at 40 Code of Federal Regulations Part 1500 et seq., and the U.S. Department of Homeland Security's *Management Directive 023-01, Environmental Planning Program*.

CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

- (a) E-mail to: NGLSONSEAccomments@cbp.dhs.gov
- (b) Mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBInet Program Management Office, 1901 S. Bell Street, Room 7-090, Arlington, VA 22202
- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Brian Bellow
Field Manager
Bureau of Land Management, U.S. Department of Interior
12661 East Broadway
Tucson, Arizona 85748

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mr. Bellow:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

The purpose of the Proposed Action is to further CBP's ability to gain operational control of the Nation's borders by providing 24-hour, year-round surveillance capabilities that will help deter illegal entry attempts into the U.S., and enable CBP agents to detect, analyze, and rapidly respond to illegal cross border activity.

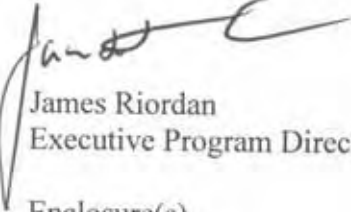
The draft SEA was prepared in compliance with provisions of the National Environmental Policy Act (NEPA) of 1969 as amended (42 United State Code 4321, et seq.), the Council on Environmental Quality's NEPA implementing regulations at 40 Code of Federal Regulations Part 1500 et seq., and the U.S. Department of Homeland Security's *Management Directive 023-01, Environmental Planning Program*.

CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

- (a) E-mail to: NGLSONSEAcumments@cbp.dhs.gov
- (b) Mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBInet Program Management Office, 1901 S. Bell Street, Room 7-090, Arlington, VA 22202
- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Commissioner C.W. "Bill" Ruth
International Boundary and Water Commission
U.S. Section
4171 North Mesa
Suite C-100
El Paso, Texas 79902-1441

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Commissioner Ruth:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

The purpose of the Proposed Action is to further CBP's ability to gain operational control of the Nation's borders by providing 24-hour, year-round surveillance capabilities that will help deter illegal entry attempts into the U.S., and enable CBP agents to detect, analyze, and rapidly respond to illegal cross border activity.


The draft SEA was prepared in compliance with provisions of the National Environmental Policy Act (NEPA) of 1969 as amended (42 United State Code 4321, et seq.), the Council on Environmental Quality's NEPA implementing regulations at 40 Code of Federal Regulations Part 1500 et seq., and the U.S. Department of Homeland Security's *Management Directive 023-01, Environmental Planning Program*.

CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

- (a) E-mail to: NGLSONSEAcumments@cbp.dhs.gov
- (b) Mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBInet Program Management Office, 1901 S. Bell Street, Room 7-090, Arlington, VA 22202
- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland Security

November 13, 2009

Colonel Thomas H. Magness, IV
District Commander
U.S. Army Corps of Engineers
Los Angeles District
915 Wilshire Boulevard
Suite 980
Los Angeles, California 90017

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Colonel Magness:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

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CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

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- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



**Homeland
Security**

November 13, 2009

Ms. Marjorie Blaine
Senior Project Manager
U.S. Army Corps of Engineers
Los Angeles District, Arizona Regulatory Branch
5205 East Comanche Street
Tucson, Arizona 85707

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Blaine:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

The purpose of the Proposed Action is to further CBP's ability to gain operational control of the Nation's borders by providing 24-hour, year-round surveillance capabilities that will help deter illegal entry attempts into the U.S., and enable CBP agents to detect, analyze, and rapidly respond to illegal cross border activity.

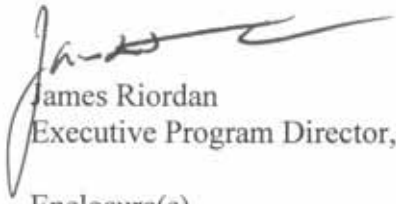
The draft SEA was prepared in compliance with provisions of the National Environmental Policy Act (NEPA) of 1969 as amended (42 United State Code 4321, et seq.), the Council on Environmental Quality's NEPA implementing regulations at 40 Code of Federal Regulations Part 1500 et seq., and the U.S. Department of Homeland Security's *Management Directive 023-01, Environmental Planning Program*.

CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

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- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland
Security

November 13, 2009

Mr. Bernie Kruse
Supervisory General Engineer
International Boundary and Water Commission
U.S. Section, Operations and Maintenance Division
4171 North Mesa
Building C, Suite 310
El Paso, Texas 79902

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Mr. Kruse:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

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CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

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- (b) Mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBInet Program Management Office, 1901 S. Bell Street, Room 7-090, Arlington, VA 22202
- (c) Fax to: (571) 468-7390, Attn: Ms. Patience Patterson

Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)



Homeland Security

November 13, 2009

Ms. Lisa Hanf
Office of Federal Activities
U.S. Environmental Protection Agency
Region 9, Federal Activities Office (CMD-2)
75 Hawthorne Street
San Francisco, California 94105

Subject: Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for the Proposed SBInet Tucson West Tower Project, Nogales and Sonoita Stations' Area of Responsibility, U.S. Border Patrol Tucson Sector, Arizona

Dear Ms. Hanf:

Enclosed for your review and comment is the above referenced document. The 30-day review period begins on November 20, 2009 and ends on December 21, 2009. U.S. Customs and Border Protection (CBP) has prepared the draft Supplemental Environmental Assessment (SEA) to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor and communication towers; vehicles; supporting infrastructure components; and technological improvements to existing facilities for CBP along approximately 56 miles of the U.S./Mexico international border, within the Tucson Sector, Arizona (the Proposed Action).

The purpose of the Proposed Action is to further CBP's ability to gain operational control of the Nation's borders by providing 24-hour, year-round surveillance capabilities that will help deter illegal entry attempts into the U.S., and enable CBP agents to detect, analyze, and rapidly respond to illegal cross border activity.

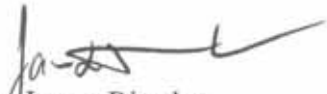
The draft SEA was prepared in compliance with provisions of the National Environmental Policy Act (NEPA) of 1969 as amended (42 United State Code 4321, et seq.), the Council on Environmental Quality's NEPA implementing regulations at 40 Code of Federal Regulations Part 1500 et seq., and the U.S. Department of Homeland Security's *Management Directive 023-01, Environmental Planning Program*.

CBP invites your participation in this public process. Comments must be received by December 21, 2009. When submitting your comments, please include name and address, and identify comments as intended for the Tucson West Draft SEA and Proposed Finding of No Significance Impact (FONSI). Comments on the enclosed documents, or questions about them, can be submitted by:

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Your prompt attention to this request is greatly appreciated. If you have any questions, please contact Ms. Patterson via E-mail or the postal address listed above.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosure(s)

AFFIDAVIT OF PUBLICATION

STATE OF ARIZONA)
COUNTY OF COCHISE)

PAMELA M. MCELROY

being first

duly sworn, deposes and says: That (he) (she) is the Agent to the Publisher of the

PUBLIC NOTICE

NOTICE OF AVAILABILITY
Draft SUPPLEMENTAL
Environmental
Assessment (SEA) and
Proposed Finding of No
Significant Impact (FONSI)
for the Proposed SBINET
Tucson West tower
Project, Nogales and
Sonoma Stations' Areas of
Responsibility, U.S.
Border Patrol, Tucson
Sector. U.S. Customs and
Border Protection (CBP), a
component of the
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Security (DHS), announces
the availability of and
invites public comments
on a draft SEA and
proposed FONSI for the
SBINET Tucson West Tower
Project. Pursuant to the
National Environmental
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42 United States Code
(U.S.C.) 4321 et seq., CBP
has prepared the draft
SEA and proposed FONSI
to identify and assess the
potential impacts
associated with the
proposed siting,
construction, operation,
and maintenance of
sensor towers, and
supporting infrastructure
components within the
Tucson Sector. The
location for the Proposed
Action, which is known as
the SBINET Tucson West
Tower Project, is the
Nogales and Sonoma
Stations' areas of
responsibility within the
Tucson Sector, Santa Cruz
County, Arizona.
The draft SEA will be

available November 20,
2009 and was prepared in
accordance with CBP's
obligations under NEPA,
the Council on
Environmental Quality
(CEQ) implementing
regulations at 40 Code of
Federal Regulations (CFR)
Parts 1500-1508, and
DHS Management
Directive 023-01
(Environmental Planning
Program). Copies of the
draft SEA and proposed
FONSI can be downloaded
from the project website
at www.cb.gov/sbi under
the link SBI NEPA
Documents for Public
Review and Comment.
Additionally, copies will be
available in the following
libraries for public review:
Nogales-Rochlin Public
Library, 518 North Grand
Avenue, Nogales, Arizona
85621 (520) 287-3343.
Sierra Vista Library, 2600
E. Tacoma Street, Sierra
Vista, Arizona 85635 (520)
458-4225. Sonoma
Community Library, 3147
State Highway 83,
Sonoma, Arizona 85637
(520) 455-5517. Pima
County Public Library,
17050 W. Arivaca Rd.,
Arivaca, Arizona 85701
(520) 594-5600. Pursuant
to the NEPA regulations,
CBP invites public
participation in the NEPA
process. The public may
participate by reviewing
and submitting comments
on the draft SEA and
proposed FONSI. The
public may submit

comments by one of three
methods described below.
CBP will consider all
applicable and pertinent
comments submitted
during the public
comment period, and
subsequently will prepare
the final SEA. CBP will
announce the availability
of the final EA and FONSI.
Comments on the draft
SEA and proposed FONSI
should be received no
later than December 21,
2009. Please use only
one of the following
methods:
(1) By Email to:
WGLSONSEAComments@cbp.dhs.gov
(2) By mail to: Ms.
Patience E. Patterson,
RPA, U.S. Department of
Homeland Security, U.S.
Customs and Border
Protection, SBINET
Program Management,
1901 S. Bell Street, Room
7-090, Arlington, Virginia
22202
(3) By fax to: (571) 468-
7390 (Attention: Ms.
Patience E. Patterson)
When submitting
comments, please include
your name and address,
and identify your
comments as being for the
SBINET Tucson West Tower
Project draft SEA. To
request a hard copy of the
draft SEA, please use one
of the aforementioned
contact methods.
PUBLISH: November 20
2009

A HERALD and the BISBEE DAILY REVIEW newspapers printed and
lays a week in the County of Cochise, State of Arizona, and of general
the cities of Sierra Vista and Bisbee, County of Cochise, State of Arizona
and hereto attached

NOTICE OF AVAILABILITY FOR THE DRAFT SBINET WEST TOWER

I published correctly in the regular and entire issue of said SIERRA VISTA
BISBEE DAILY REVIEW for 1 issues, that the first was

20th day of NOVEMBER 20 09

publication thereof was made on the 20th day of

NOVEMBER 20 09 that said publication
each of the following dates, to wit:

20 09

Sierra Vista Herald
Bisbee Daily Review

By

Subscribed sworn to before me this 20th day of NOVEMBER

20 09



Notary Public in and for the County of Cochise, State of Arizona

My Commission Expires:

BW1 FOIA CBP 006435

STATE OF ARIZONA)
) SS
COUNTY OF SANTA CRUZ)

AFFIDAVIT OF PUBLICATION
KIMBERLY L. HICKS



being first

Duly sworn, deposes and says: That (he) (she) is the Agent to the Publisher of the NOGALES INTERNATIONAL newspaper printed and published two days week in the City of Nogales, County of Santa Cruz, State of Arizona. That the notice, a copy of which is hereto attached, described as follows:

LEGAL NOTICE

NOTICE OF AVAILABILITY

DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT (SEA) AND PROPOSED FINDING OF NO SIGNIFICANT IMPACT (FONSI) FOR THE PROPOSED SBI/TUCSON WEST TOWER PROJECT, NOGALES AND SONOITA STATIONS' AREAS OF RESPONSIBILITY, U.S. BORDER PATROL, TUCSON SECTOR

U.S. Customs and Border Protection (CBP), a component of the Department of Homeland Security (DHS), announces the availability of and invites public comments on a draft SEA and proposed FONSI for the SBI/Tucson West Tower Project. Pursuant to the National Environmental Policy Act (NEPA) of 1969, 42 United States Code (U.S.C.) 4321 et seq., CBP has prepared the draft SEA and proposed FONSI to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor towers,

and supporting infrastructure components within the Tucson Sector. The location for the Proposed Action, which is known as the SBI/Tucson West Tower Project, is the Nogales and Sonoita Stations' areas of responsibility within the Tucson Sector, Santa Cruz County, Arizona.

The draft SEA will be available November 20, 2009 and was prepared in accordance with CBP's obligations under NEPA, the Council on Environmental Quality (CEQ) implementing regulations at 40 Code of Federal Regulations (CFR) Parts 1500-1508, and DHS Management Directive 023-01 (Environmental Planning Program). Copies of the draft SEA and proposed FONSI can be downloaded from the project website at www.cbp.gov/sbi under the link SBI NEPA Documents for Public Review and Comment. Additionally, copies will be

**NOTICE OF AVAILABILITY
DRAFT SUPPLEMENTAL ENVIRONMENTAL**

was printed and published in the regular and entire issue of said

NOGALES INTERNATIONAL for 1 issues, that the first was

made on the 20th day of NOVEMBER 2009

and the last publication thereof was made on the 20th day of

NOVEMBER 2009 that said publication

was made on each of the following dates, to wit:

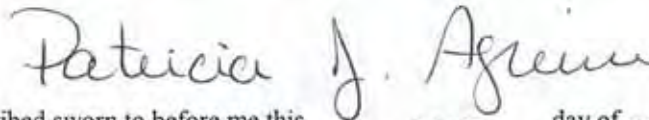
11/20/09

Request of

GSRC ATTN: SHANNA MCCARTY

NOGALES INTERNATIONAL
268 W VIEW POINT, NOGALES, AZ 85621 (520)281-9706

By



Subscribed sworn to before me this 20th day of NOVEMBER

20 09



Notary Public in and for the County of Santa Cruz, State of Arizona

My Commission Expires:

March 25, 2012

BW1 FOIA CBP 006436

RESPONSIBILITY, U.S. BORDER
TROL, TUCSON SECTOR

S. Customs and Border Pro-
ction (CBP), a component of
re Department of Homeland
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the availability of and invites
public comments on a draft
SEA and proposed FONSI for
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tional Environmental Policy
Act (NEPA) of 1969, 42 United
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seq., CBP has prepared the
draft SEA and proposed FONSI
to identify and assess the po-
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struction, operation, and
maintenance of sensor tow-
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structure components within
the Tucson Sector. The loca-
tion for the Proposed Action,
which is known as the SBI/Tucson West Tower Project, is
the Nogales and Sonoita Sta-
tions' areas of responsibility
within the Tucson Sector,
Santa Cruz County, Arizona.

The draft SEA will be available
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prepared in accordance with
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gram). Copies of the draft
SEA and proposed FONSI can
be downloaded from the pro-
ject website at
www.cbp.gov/sbi under the
link SBI NEPA Documents for
Public Review and Comment.
Additionally, copies will be
available in the following li-
braries for public review:

Nogales-Rochlin Public Li-
brary, 518 North Grand Ave-
nue, Nogales, Arizona 85621
(520) 287-3343

Sierra Vista Library, 2600 E.
Tacoma Street, Sierra Vista,
Arizona 85635 (520) 458-4225

Sonoita Community Library,
3147 State Highway 83,
Sonoita, Arizona 85637 (520)
455-5517

Pima County Public Library,
17050 W. Arivaca Rd., Arivaca,
Arizona 85701 (520) 594-5600

Pursuant to the NEPA regula-
tions, CBP invites public par-
ticipation in the NEPA proc-
ess. The public may partici-
pate by reviewing and sub-
mitting comments on the
draft SEA and proposed
FONSI. The public may submit
comments by one of three
methods described below.
CBP will consider all applica-
ble and pertinent comments
submitted during the public
comment period, and subse-
quently will prepare the final
SEA. CBP will announce the
availability of the final EA and
FONSI.

Comments on the draft SEA
and proposed FONSI should
be received no later than De-
cember 21, 2009. Please use
only one of the following
methods:

(1) By Email to: NGLSONSEA-
comments@cbp.dhs.gov

(2) By mail to: Ms. Patience E.
Patterson, RPA, U.S. Depart-
ment of Homeland Security,
U.S. Customs and Border Pro-
tection, SBI/Tucson Program Man-
agement, 1901 S. Bell Street,
Room 7-090, Arlington, Vir-
ginia 22202

(3) By fax to: (571) 468-7390
(Attention: Ms. Patience E.
Patterson)

When submitting comments,
please include your name and
address, and identify your
comments as being for the
SBI/Tucson West Tower
Project draft SEA. To request
a hard copy of the draft SEA,
please use one of the afore-
mentioned contact methods.

Req: Tucson sea noa
Pub: 11/20/2009

made on the 20th day of NOVEMBER 2009
and the last publication thereof was made on the 20th day of
NOVEMBER 2009 that said publication
was made on each of the following dates, to wit:
11/20/09

Request of
GSRC ATTN: SHANNA MCCARTY

NOGALES INTERNATIONAL
268 W VIEW POINT, NOGALES, AZ 85621 (520)281-9706
By

Patricia J. Aguirre
Subscribed sworn to before me this 20th day of NOVEMBER
20 09



Notary Public in and for the County of Santa Cruz, State of Arizona
My Commission Expires:
March 25, 2012

TUCSON NEWSPAPERS

Tucson, Arizona

STATE OF ARIZONA)
COUNTY OF PIMA)

Debbie Capanear, being first duly sworn deposes and says: that she is the Legal Advertising Representative of **TNI PARTNERS, commonly known as TUCSON NEWSPAPERS**, a General Partnership organized and existing under the laws of the State of Arizona, and that it prints and publishes the Arizona Daily Star, a daily newspaper printed and published in the City of Tucson, Pima County, State of Arizona, and having a general circulation in said City, County, State and elsewhere, and that the attached

Legal Notice

was printed and published correctly in the entire issue of the said Arizona Daily Star on each of the following dates, to-wit:

NOVEMBER 20, 2009

Debbie Capanear

Subscribed and sworn to before me this 4 day of
December, 2009

Silvia H Valdez
Notary Public



SILVIA H VALDEZ
Notary Public - Arizona
Pima County
Expires 12/15/09

My commission expires _____

TNI AD NO. 6956956

NOTICE OF AVAILABILITY

DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT (SEA) AND PROPOSED FINDING OF NO SIGNIFICANT IMPACT (FONSI) FOR THE PROPOSED SBINET TUCSON WEST TOWER PROJECT, NOGALES AND SONOITA STATIONS' AREAS OF RESPONSIBILITY, U.S. BORDER PATROL, TUCSON SECTOR

U.S. Customs and Border Protection (CBP), a component of the Department of Homeland Security (DHS), announces the availability of and invites public comments on a draft SEA and proposed FONSI for the SBINET Tucson West Tower Project. Pursuant to the National Environmental Policy Act (NEPA) of 1969, 42 United States Code (U.S.C.) 4321 et seq., CBP has prepared the draft SEA and proposed FONSI to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor towers, and supporting infrastructure components within the Tucson Sector. The location for the Proposed Action, which is known as the SBINET Tucson West Tower Project, is the Nogales and Sonoita Stations' areas of responsibility within the Tucson Sector, Santa Cruz County, Arizona.

The draft SEA will be available November 20, 2009 and was prepared in accordance with CBP's obligations under NEPA, the Council on Environmental Quality (CEQ) implementing regulations at 40 Code of Federal Regulations (CFR) Parts 1500-1508, and DHS Management Directive 023-01 (Environmental Planning Program). Copies of the draft SEA and proposed FONSI can be downloaded from the project website at www.cbp.gov/sbi under the link SBINET NEPA Documents for Public Review and Comment. Additionally, copies will be available in the following libraries for public review:

Nogales-Rochlin Public Library, 518 North Grand Avenue, Nogales, Arizona 85621 (520) 287-3343

Sierra Vista Library, 2600 E. Tacoma Street, Sierra Vista, Arizona 85635 (520) 458-4225
Sonoita Community Library, 3147 State Highway 83, Sonoita, Arizona 85637 (520) 455-5517

Pima County Public Library, 17050 W. Arivaca Rd., Arivaca, Arizona 85701 (520) 594-5600

Pursuant to the NEPA regulations, CBP invites public participation in the NEPA process. The public may participate by reviewing and submitting comments on the draft SEA and proposed FONSI. The public may submit comments by one of three methods described below. CBP will consider all applicable and pertinent comments submitted during the public comment period, and subsequently will prepare the final SEA. CBP will announce the availability of the final SEA and FONSI.

Comments on the draft SEA and proposed FONSI should be received no later than December 21, 2009. Please use only one of the following methods:

- (1) By Email to: NGLSONSEACOMMENTS@cbp.dhs.gov
- (2) By mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBINET Program Management, 1901 S. Bell Street, Room 7-090, Arlington, Virginia 22202
- (3) By fax to: (571) 468-7390 (Attention: Ms. Patience E. Patterson)

When submitting comments, please include your name and address, and identify your comments as being for the SBINET Tucson West Tower Project draft SEA. To request a hard copy of the draft SEA, please use one of the aforementioned contact methods.

Publish November 20, 2009
Arizona Daily Star

BW1 FOIA CBP 006438



U.S. Customs and
Border Protection

U.S. Fish and Wildlife Service
ATTN: Mr. Steven Spangle
2321 West Royal Palm Road, Suite 103
Phoenix, Arizona 85021-4951

RE: Reinitiation of Consultation for the Biological Opinion on Secure Border Initiative (SBInet) Tucson West Tower Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations' Area of Operation, U.S. Border Patrol, Tucson Sector, Arizona

Dear Mr. Spangle,

In 2004, the Department of Homeland Security, United States (U.S) Customs and Border Protection (CBP) entered into formal consultation with U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of the Endangered Species Act of 1973 (16 U.S.C. 1531-1544), as amended (ESA) for the Secure Border Initiative Net (SBInet) Tucson West Tower Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations' Area of Operation, U.S. Border Patrol, Tucson Sector, Arizona (Tucson West Project). The Proposed Action included the construction or retrofit, operation, and maintenance of 54 communication and sensor towers; construction of 29 new road segments and repair of 19 roads; use of mobile surveillance systems; and deployment of unattended ground sensors. Twelve of the 54 towers are existing towers that will be upgraded. On September 4, 2008, USFWS issued the final Biological Opinion (AESO/SE 22410-2008-F-0373) for the Tucson West Project.

After further analysis of technical and operational needs, SBInet has determined that three additional towers and modification of one previously analyzed tower were needed to enhance the operational and technical capabilities of the SBInet Tucson West Project. The Proposed Action includes the construction, operation, and maintenance of three new sensor towers (TCA-NGL-141, TCA-NGL-316, and TCA-SON-314 [TCA-SON-323 is an alternate to TCA-SON-314] and modification of one previously analyzed sensor tower (TCA-SON-057), which creates a communications network in support of the SBInet Tucson West common operating picture (COP) among components of CBP and other Federal, state, and local partners outside CBP (Attachment 1).

Proposed tower TCA-NGL-316 would replace tower TCA-NGL-048 (original Proposed Action) and the elimination of TCA-NGL-048 would negate the need for towers TCA-NGL-210 and 211 (original Proposed Action). TCA-NGL-048 is being replaced because a real estate agreement cannot be completed with the landowner at this time. Proposed tower TCA-SON-314 would replace TCA-SON-055 (original Proposed Action) to enhance the spatial coverage in this area. The view from TCA-SON-055 is partially obstructed by a mountain. Tower TCA-SON-057 was originally proposed as an 80-foot rapidly deployed tower with a permanent impact footprint of 50- x 50-foot. After further technical and operational analyses, the proposed tower for site TCA-SON-057 would require construction of a 100-foot self standing tower with a permanent impact

footprint of 80- x 80-foot. Modifications are needed to enhance the spatial coverage of tower TCA-SON-057.

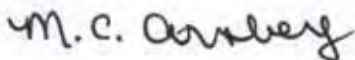
The Proposed Action also includes the construction of new access roads, and repair or improvement to existing approach roads associated with construction and operation of the proposed towers. Maintenance of associated access roads and approach roads is also included as part of the Proposed Action. The Proposed Action would result in a total of 53 towers being constructed as part of the Tucson West Project.

The original Proposed Action included a total of 6,529 feet of new road construction and 65,134 feet of road repairs. The elimination of towers TCA-NGL- 210 and 211, and TCA-SON-055, as part of the current Proposed Action, reduces new road construction by 496 feet and road repairs by 4,014 feet. Construction of the three proposed towers would result in 531 feet of new road construction and 6,794 feet of road repair and improvement. Therefore, the Proposed Action would result in 6,564 feet of new road construction and 67,914 feet of road repair and improvement. The net increase of new road construction and road repair and improvement is 35 feet and 2,780 feet, respectively.

Through discussions with USFWS, *SBI*net has determined that the Proposed Action does not require reinitiation of formal consultation based on the four general conditions for reinitiating formal consultation pursuant to Section 7 of the ESA. The Proposed Action would not exceed the amount or extent of incidental take set in the original BO and the Proposed Action would not affect listed species or critical habitat beyond those previously considered in the original consultation. No additional effects to listed species or critical habitat would occur beyond those previously considered in the original consultation. Additionally, no new species have been listed or critical habitat designated within project area and would not be affected by the Proposed Action.

If you have any questions or require additional information, please do not hesitate to contact Ms. Patience E. Patterson at (571) 468-7290.

Sincerely,



James Riordan
Executive Program Director, *SBI*net

cc: Ms. Susan Sferra
Mr. Jim Rorabaugh
Ms. Sherry Barrett

U.S. Customs and
Border Protection

June 11, 2009

RECEIVED

JUN 17 2009

ARIZONA STATE PARKS/S.H.P.

Mr. James Garrison, State Historic Preservation Officer
ATTN: Ms. JoAnne Medley
Arizona State Parks
1300 West Washington
Phoenix, Arizona 85007

Subject: Section 106 Consultation and Determinations of Eligibility for the results of
"A Cultural Resources Survey of Four Proposed Customs and Border Protection
Tower Locations (TCA-NGL-316, TCA-NGL-141, TCA-SON-323, TCA-SON-314)
and Associated Road Access Near Nogales, Santa Cruz County, Arizona"

Dear Mr. Garrison:

Our previous Section 106 consultation on the Tucson West Tower Project occurred in 2008. The archaeological monitoring and other stipulated work are going on at the present time. Since then we have begun the process of producing a Supplemental Environmental Assessment for four newly proposed towers to be placed in the Nogales and Sonoita Border Patrol station areas of responsibility (within the Tucson Sector).

In order to complete the NEPA and NHPA processes, a Class III cultural resources survey was completed for the four towers noted above. The results of that survey effort are detailed in the enclosed report, "A Cultural Resources Survey of Four Proposed Customs and Border Protection Tower Locations (TCA-NGL-316, TCA-NGL-141, TCA-SON-323, TCA-SON-314) and Associated Road Access Near Nogales, Santa Cruz County, Arizona".

The completion of the Class III survey of approximately 50.6 acres, including tower sites and access road areas resulted in the identification of two new sites, AZ EE:9:260(ASM) and AZ EE:10:181(ASM)/AR03-05-03-465, and 27 isolated occurrences (IOs). AZ EE:9:260(ASM) consists of a destroyed kiln or kilns located on private land on an access road west of TCA-NGL-141. AZ EE:10:181(ASM)/AR03-05-03-465 consists of the Benton Mine, which is located on Coronado National Forest land and encompasses both tower sites TCA-SON-323 and 314. Only a small portion of the mine is historic, while the majority is the product of modern operations. Given the paucity of findings of the survey and the archival research, we have determined that this site is not considered eligible for the National Register of Historic Places (NRHP) under any criteria. Although there are recorded sites in the vicinity of tower TCA-NGL-141, none of those sites are within



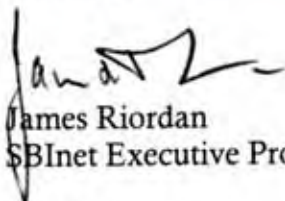
**U.S. Customs and
Border Protection**

the APE of 141 and therefore will not be affected by its construction. AZ EE:9:260(ASM) consists of a destroyed kiln or kilns located on private land on an access road west of TCA-NGL-141. This site appears to have been destroyed in the recent past. There is evidence of three distinct brick concentrations and a low-density scatter of bricks and brick fragments across the site area. Due to the fact that the site has been bulldozed and bladed, it is unclear as to when the structure was built or how long it was in use. We have determined that given the absence of associated artifacts, lack of evidence for subsurface depth and the fact that the site has been destroyed leaving no intact features; this site is not eligible for the NRHP.

In accordance with 36 CFR Part 800.4(d)(1), we have determined that No historic properties will be affected by our proposed action. We ask for concurrence from Coronado National Forest and from you with our determination and look forward to your immediate responses.

If you have any questions concerning this project or the report, please contact Ms. Patience Patterson, (202) 344-1131 or (202) 870-7422 or via email, patience.patterson@dhs.gov.

Sincerely,



James Riordan
SBI-net Executive Program Director

Enclosure

CC:

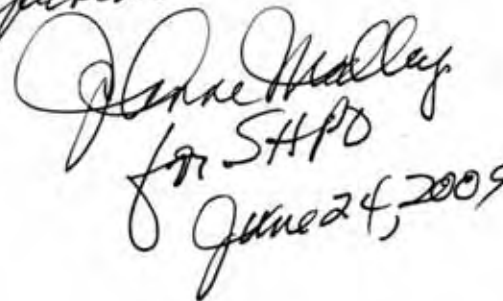
Ms. Mary Farrell, Mr. Bill Gillespie and Mr. Dave Mehalic
Forest Archaeologists
Region 3, Coronado National Forest Supervisor's Office
300 W. congress St.
Tucson, Arizona 85701

Mr. Steven K. Ross, Cultural Resources Manager
Arizona State Land Department
1616 West Adams Street
Phoenix, Arizona 85007

Concur:

① Site AZ EE: 9:260(ASM)
and AZ EE: 10:181(ASM)
each not Register-eligible.

③ No historic properties
affected.



for SHPO
June 24, 2009

Maria Reid

From: PATTERSON, PATIENCE E [patience.patterson@dhs.gov]

Sent: Monday, June 22, 2009 2:36 PM

To: Howard Nass; Maria Reid

Subject: FW: Proposed SEA on SBInet Tucson West Project

From: Wendy S. LeStarge [mailto:LeStarge.Wendy@azdeq.gov]

Sent: Thursday, June 04, 2009 5:52 PM

To: PATTERSON, PATIENCE E

Cc: Linda C. Taunt

Subject: Proposed SEA on SBInet Tucson West Project

Ms. Patterson,

On behalf of Linda Taunt, Deputy Division Director, we thank you for the May 6, 2009 notice on the intent to prepare a Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector. The Arizona Department of Environmental Quality, Water Quality Division has no comments at this time, but we look forward to reviewing the Supplemental Environmental Assessment. Please note that our contact information is changing as we are in the process of changing administration. Please address future notices to Mr. Benjamin H. Grumbles, who will be the agency director beginning June 22, 2009.

Thank you.

*Wendy LeStarge
Environmental Rules Specialist
Arizona Department of Environmental Quality
Water Quality Division
(602) 771-4836*



THE STATE OF ARIZONA
GAME AND FISH DEPARTMENT

5000 W. CAREFREE HIGHWAY
PHOENIX, AZ 85086-5000
(602) 942-3000 • WWW.AZGFD.GOV

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JACK F. HUSTED, SPRINGVILLE
DIRECTOR
LARRY D. VOYLES
DEPUTY DIRECTORS
GARY R. HOVATTER
ROBERT D. BROSCHEID



June 5, 2009

Mr. James Riordan
US Department of Homeland Security
SBInet Program Management Office
US Customs and Border Protection, Headquarters
1300 Pennsylvania Ave., NW Room 7.5B
Washington, DC 20229

Re: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project,
U.S. Border Patrol Tucson Sector

Dear Mr. Riordan:

The Arizona Game and Fish Department (Department) appreciates the opportunity to review the proposed siting, construction, operation, and maintenance of sensor and communication systems and their associated access roads along the US/Mexico border, Tucson Sector, Arizona. The Department understands the proposed action would include approximately 4 fixed, sensor and communication towers and associated access roads.

The Department supports the efforts of the U.S. Customs and Border Protection (CBP) and the reduction of illegal traffic along the border where illegal traffic can be reduced as a result of project activities. However, the Department believes the loss or degradation of habitat for ESA-listed and other wildlife species should be mitigated by implementing local or regional habitat improvements and/or providing funding for state and federal wildlife management and monitoring needs for species affected. The Department has the following recommendations at this time:

1. Tower sites TCA-SON-314 and 323 are within Designated Critical Habitat for Mexican spotted owl.
2. Tower site TCA-NGL-316 is within the Santa Rita – Tumacacori Wildlife Corridor. The corridor is critical in maintaining connectivity between the sky islands of the Santa Rita Mountain Complex and the Tumacacori-Atascosa-Pajarito Mountain Complex as well as Sonoran semidesert wildlands. The Department recommends limiting construction to the bare minimum required for the project.
3. All the towers will need new roads or have roads improved. An improved road network attracts motorized recreationists which will increase disturbance to all wildlife, increase spread of noxious weeds, provide an enhanced vector for pathogens and introduced

Mr. James Riordan

June 5, 2009

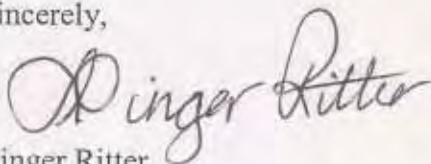
2

predators/competitors, increase direct mortality from motor vehicle collision, and increased exposure to intentional illegal take of wildlife. The Department recommends limiting construction of new roads and improvement of roads to the extent possible.

4. Staging areas and construction sites should be located in previously disturbed areas and revegetated with native species that approximate pre-disturbance plant community composition or native, as all efforts should be made to minimize impacts on vegetative communities.
5. Water needed for construction activities should be trucked in when practical, and must not directly drain into existing surface waters to prevent potential spread of pathogens, such as chytrid fungus, tiger salamander virus, Asian tapeworm, etc. Use of water from existing livestock tanks and impoundments should be minimized to ensure those resources remain available for livestock and wildlife during dry periods especially during summer months.

Close coordination with the Department on projects such as this is vital to ensure adequate coordination and analysis of impacts to the state's wildlife resources. The Department proposes quarterly meetings with CPB to coordinate on activities which may have an effect on the Department's responsibility to manage wildlife. In doing so, it may be possible to avoid some negative impacts to wildlife while meeting the project needs of the border patrol agencies. The Department appreciates the opportunity to coordinate with and provide comments to the CPB. For further coordination or if you have questions regarding this letter, please contact me at (623) 236-7606.

Sincerely,



Ginger Ritter
Project Evaluation Program Specialist, Habitat Branch

cc: Laura Canaca, Project Evaluation Program Supervisor
Joan Scott, Habitat Program Manager, Region V

AGFD # M09-05214903

Arizona's On-line Environmental Review Tool
Search ID: 20090505008750
Project Name: TCA-NGL-316
Date: 5/5/2009 12:16:09 PM

Project Location



Project Name: TCA-NGL-316
Submitted By: PEP Project Evaluation Program
On behalf of: USBP
Project Search ID: 20090505008750
Date: 5/5/2009 12:15:59 PM
Project Category: Law Enforcement Activities Associated with the Border, Beacons, buildings, runways, water towers and other features
Project Coordinates (UTM Zone 12-NAD 83): 493635.924, 3501349.863 meter
County: SANTA CRUZ
USGS 7.5 Minute Quadrangle ID: 1897
Quadrangle Name: AMADO
Project locality is not anticipated to change

Location Accuracy Disclaimer

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Receipt is solely responsible for the project location and thus the correctness of the Project Review Receipt content.

The Department appreciates the opportunity to provide in-depth comments and project review when additional information or environmental documentation becomes available.

Special Status Species Occurrences/Critical Habitat/Tribal Lands within 3 miles of Project Vicinity:

Name	Common Name	ESA	USFS	BLM	State
<i>Agosia chrysogaster chrysogaster</i>	Gila Longfin Dace	SC		S	
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo (Western U.S. DPS)	C			WSC
<i>Coryphantha scheeri</i> var. <i>robustispina</i>	Pima Pineapple Cactus	LE			HS
<i>Physalis latiphysa</i>	Broad-leaf Ground-cherry		S		
<i>Poecilopsis occidentalis occidentalis</i>	Gila Topminnow	LE			WSC
Santa Rita - Tumacacori Linkage Design	Wildlife Corridor				
<i>Sigmodon ochrognathus</i>	Yellow-nosed Cotton Rat	SC			
<i>Tyrannus crassirostris</i>	Thick-billed Kingbird				WSC
<i>Tyrannus melancholicus</i>	Tropical Kingbird				WSC

Arizona's On-line Environmental Review Tool

Search ID: 20090505008751
Project Name: TCA-NGL-141
Date: 5/5/2009 12:21:25 PM

Project Location



Project Name: TCA-NGL-141

Submitted By: PEP Project Evaluation Program

On behalf of: USBP

Project Search ID: 20090505008751

Date: 5/5/2009 12:21:18 PM

Project Category: Law Enforcement Activities Associated with the Border, Beacons, buildings, runways, water towers and other features

Project Coordinates (UTM Zone 12-NAD 83): 510085.418, 3467360.661 meter

County: SANTA CRUZ

USGS 7.5 Minute Quadrangle ID: 1961

Quadrangle Name: NOGALES

Project locality is not anticipated to change

The Department appreciates the opportunity to provide in-depth comments and project review when additional information or environmental documentation becomes available.

Special Status Species Occurrences/Critical Habitat/Tribal Lands within 3 miles of Project Vicinity:

Name	Common Name	ESA	USFS	BLM	State
<i>Amsonia grandiflora</i>	Large-flowered Blue Star	SC	S		
<i>Buteo nitidus maxima</i>	Northern Gray Hawk	SC	S		WSC
<i>Coryphantha recurvata</i>	Santa Cruz Beehive Cactus		S		HS
<i>Coryphantha scheeri</i> var. <i>robustispina</i>	Pima Pineapple Cactus	LE			HS
<i>Macropitium supinum</i>	Supine Bean	SC	S		SR
Santa Rita -- Tumacacori Linkage Design	Wildlife Corridor				
<i>Sigmodon ochrognathus</i>	Yellow-nosed Cotton Rat	SC			
<i>Solanum elaeagnifolium</i>	Lumholtz Nightshade		S		

Location Accuracy Disclaimer

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Arizona's On-line Environmental Review Tool

Search ID: 20090505008752

Project Name: TCA-SON-314

Date: 5/5/2009 12:27:38 PM

Project Location



Project Name: TCA-SON-314

Submitted By: PEP Project Evaluation Program

On behalf of: USBP

Project Search ID: 20090505008752

Date: 5/5/2009 12:27:29 PM

Project Category: Law Enforcement Activities Associated with the Border, Beacons, buildings, runways, water towers and other features
Project Coordinates (UTM Zone 12-NAD 83): 529151.664, 3467414.862 meter

County: SANTA CRUZ

USGS 7.5 Minute Quadrangle ID: 1957

Quadrangle Name: DUQUESNE

Project locality is not anticipated to change

The Department appreciates the opportunity to provide in-depth comments and project review when additional information or environmental documentation becomes available.

Special Status Species Occurrences/Critical Habitat/Tribal Lands within 3 miles of Project Vicinity:

Name	Common Name	ESA	USFS	BLM	State
<i>Ambystoma tigrinum stebbinsi</i>	Sonora Tiger Salamander	LE			WSC
CH for <i>Strix occidentalis lucida</i>	Designated Critical Habitat for Mexican spotted owl				
<i>Corynorhinus townsendii pallascens</i>	Pale Townsend's Big-eared Bat	SC			
<i>Euphorbia macropus</i>	Woodland Spurge	SC			SR
<i>Ipomoea plummerae</i> var. <i>cuneifolia</i>	Huachuca Morning Glory		S		
<i>Lithobates chiricahuensis</i>	Chiricahua Leopard Frog	LT	S		WSC
<i>Myotis velifer</i>	Cave Myotis	SC		S	
<i>Oxybelis aeneus</i>	Brown Vinesnake				WSC
<i>Sigmodon ochrognathus</i>	Yellow-nosed Cotton Rat	SC			
<i>Thamnophis eques megalops</i>	Northern Mexican Gartersnake	C	S		WSC

Location Accuracy Disclaimer

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Receipt is solely responsible for the project location and thus the correctness of the Project Review Receipt content.

Project Location



Project Name: TCA-SON-323
Submitted By: PEP Project Evaluation Program
On behalf of: USBP
Project Search ID: 20090505008753
Date: 5/5/2009 12:30:51 PM
Project Category: Law Enforcement Activities Associated with the Border, Beacons, buildings, runways, water towers and other features
Project Coordinates (UTM Zone 12-NAD 83): 528682.646, 3467532.348 meter
County: SANTA CRUZ
USGS 7.5 Minute Quadrangle ID: 1957
Quadrangle Name: DUQUESNE
Project locality is not anticipated to change

The Department appreciates the opportunity to provide in-depth comments and project review when additional information or environmental documentation becomes available.

Special Status Species Occurrences/Critical Habitat/Tribal Lands within 3 miles of Project Vicinity:

Name	Common Name	ESA	USFS	BLM	State
<i>Ambystoma tigrinum stebbinsi</i>	Sonora Tiger Salamander	LE			WSC
CH for <i>Strix occidentalis lucida</i>	Designated Critical Habitat for Mexican spotted owl				
<i>Corynorhinus townsendii pallascens</i>	Pale Townsend's Big-eared Bat	SC			
<i>Euphorbia macropus</i>	Woodland Spurge	SC			SR
<i>Ipomoea plummerae</i> var. <i>cuneifolia</i>	Huachuca Morning Glory		S		
<i>Lithobates chiricahuensis</i>	Chiricahua Leopard Frog	LT	S		WSC
<i>Myotis velifer</i>	Cave Myotis	SC		S	
<i>Oxybelis aeneus</i>	Brown Vinesnake				WSC
<i>Sigmodon ochrognathus</i>	Yellow-nosed Cotton Rat	SC			
<i>Thamnophis eques megalops</i>	Northern Mexican Gartersnake	C	S		WSC

Location Accuracy Disclaimer

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Receipt is solely responsible for the project location and thus the correctness of the Project Review Receipt content.



**U.S. Customs and
Border Protection**

May 6, 2009

U.S. Fish and Wildlife Service
Arizona Ecological Services Field Office
ATTN: Steve Spangle, Field Supervisor
2321 West Royal Palm Road, Suite 103
Phoenix, AZ 85021-4915

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Mr. Spangle,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations' areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

The SEA will analyze the potential for significant adverse or beneficial impacts of the proposed actions. At the present time, the proposed action includes the construction of up to four sensor and communication towers. Access road construction, improvement, repair, and maintenance would be required as part of the proposed action.

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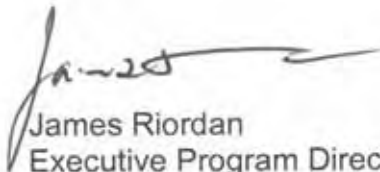
Tower Number	Latitude	Longitude
TCA-NGL-141	31.341650	-110.893716
TCA-NGL-316	31.647080	-111.067849
TCA-SON-314	31.341714	-110.695274
TCA-SON-323	32.342020	-110.698410

We are currently in the process of gathering the most current information available regarding Federal and state listed species potentially occurring within this area. CBP respectfully requests that your agency provide input regarding protected species, designated critical habitat, descriptions of sensitive resources (e.g., rare or unique plant communities, threatened and endangered and candidate species), and unique or environmentally sensitive areas that you believe may be affected by the proposed USBP activities. Threatened and Endangered species and best management practices information from the U.S. Fish and Wildlife Service's IPac system will be used in the preparation of the Draft SEA.

We intend to provide your agency with a copy of the Draft SEA for the SBInet Tucson West Project once completed. Please let us know if additional copies are needed.

Your prompt attention to this request would be greatly appreciated. If you have any questions, please call Ms. Patience Patterson at (202) 344-1131.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Ms. Sherry Barrett
Mr. Robert Miller
Mr. Steve Carhart



**U.S. Customs and
Border Protection**

May 6, 2009

Coronado National Forest
Nogales Ranger District
ATTN: Mr. Keith Graves, District Ranger
303 Old Tucson Road
Nogales, AZ 85621

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Mr. Graves,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations' areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

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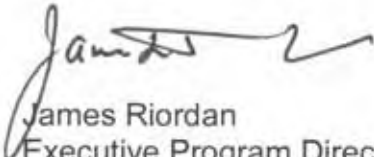
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We intend to provide your agency with a copy of the Draft SEA for the SBInet Tucson West Project once completed. Please let us know if additional copies are needed.

Your prompt attention to this request would be greatly appreciated. If you have any questions, please call Ms. Patience Patterson at (202) 344-1131.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Mr. Robert Miller
Mr. Steve Carhart



**U.S. Customs and
Border Protection**

May 6, 2009

Arizona Game and Fish Department
WMHB – Project Evaluation Program
ATTN: Project Evaluation Program Supervisor
5000 W. Carefree Highway
Phoenix, AZ 85086-5000

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Sir/Madam,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations' areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

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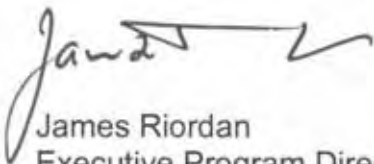
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Mr. Robert Miller
Mr. Steve Carhart



**U.S. Customs and
Border Protection**

May 6, 2009

Santa Cruz County
ATTN: Mr. Greg Lucero, County Manager
2150 N. Congress Drive, #119
Nogales, AZ 85621

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Mr. Lucero,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations' areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

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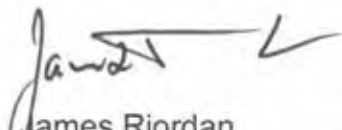
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Mr. Robert Miller
Mr. Steve Carhart



**U.S. Customs and
Border Protection**

May 6, 2009

Arizona Department of Environmental Quality
ATTN: Mr. Steve Owens, Director
1110 West Washington Street
Phoenix, AZ 85007

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Mr. Owens,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations' areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

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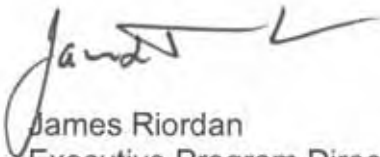
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Mr. Robert Miller
Mr. Steve Carhart



**U.S. Customs and
Border Protection**

May 6, 2009

Arizona Department of Environmental Quality
ATTN: Water Quality Division
Ms. Joan Card, Director
1110 West Washington Street
Phoenix, AZ 85007

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Ms. Card,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations' areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

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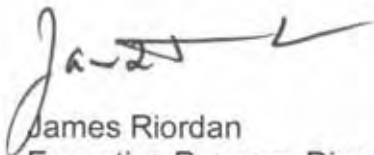
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Mr. Steve Owens
Mr. Robert Miller
Mr. Steve Carhart



**U.S. Customs and
Border Protection**

May 6, 2009

Arizona State Land Department
ATTN: Mr. Mark Winkleman
State Land Commissioner
1616 West Adam Street
Phoenix, AZ 85007

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Mr. Winkleman,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations' areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

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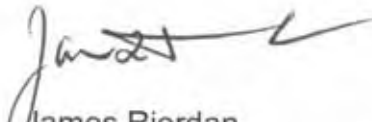
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Mr. Robert Miller
Mr. Steve Carhart



**U.S. Customs and
Border Protection**

May 6, 2009

U.S. International Boundary and Water Commission
ATTN: Mr. Bill Ruth, Commissioner
4171 North Mesa Street
Suite C100
El Paso, TX 79902

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Mr. Ruth,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations' areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

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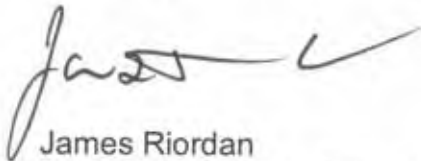
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Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Mr. John Merino
Mr. Al Riera
Mr. Jose Nunez
Mr. Tony Solo
Mr. Robert Miller
Mr. Steve Carhart



**U.S. Customs and
Border Protection**

May 6, 2009

U.S. Fish and Wildlife Service
Arizona Ecological Services Field Office
ATTN: Sherry Barrett, Assistant Field Supervisor
201 N. Bonita Ave.
Suite 141
Tucson, AZ 85745

SUBJECT: Proposed Supplemental Environmental Assessment for the SBInet Tucson West Project, U.S. Border Patrol Tucson Sector

Dear Ms. Barrett,

On behalf of the U.S. Customs and Border Protection (CBP) and the Department of Homeland Security, the U.S. Army Corps of Engineers (USACE), Fort Worth District intends to prepare a Supplemental Environmental Assessment (SEA) for the Secure Border Initiative (SBInet) Tucson West Project in the U.S. Border Patrol (USBP) Tucson Sector. This SEA will address the construction, operation, and maintenance of up to four sensor and communication systems and associated access roads. The proposed action is located in the Nogales and Sonoita Stations areas of responsibility (AOR) (Figure 1). This system of towers and access roads creates a communications network in support of a Common Operating Picture (COP) among components of CBP and other Federal, state, and local partners outside CBP. The four towers proposed in this project would add to the surveillance capabilities of the original SBInet Tucson West Project, which was approved in September 2008 in the *Final Environmental Assessment and Finding of No Significant Impact for the Proposed SBInet Tucson West Project, Ajo, Tucson, Casa Grande, Nogales, and Sonoita Stations Areas of Responsibility, U.S. Border Patrol, Tucson Sector, Arizona*. The intent of the proposed action is to make USBP enforcement actions more efficient and effective.

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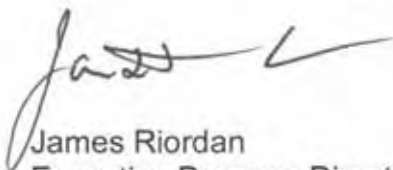
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TCA-SON-314	31.341714	-110.695274
TCA-SON-323	32.342020	-110.698410

We are currently in the process of gathering the most current information available regarding Federal and state listed species potentially occurring within this area. CBP respectfully requests that your agency provide input regarding protected species, designated critical habitat, descriptions of the sensitive resources (e.g., rare or unique plant communities, threatened and endangered and candidate species), and unique or environmentally sensitive areas that you believe may be affected by the proposed USBP activities. Threatened and Endangered species and best management practices information from the U.S. Fish and Wildlife Service's IPac system will be used in the preparation of the Draft SEA.

We intend to provide your agency with a copy of the Draft SEA for the SBInet Tucson West Project once completed. Please let us know if additional copies are needed.

Your prompt attention to this request would be greatly appreciated. If you have any questions, please call Ms. Patience Patterson at (202) 344-1131.

Sincerely,



James Riordan
Executive Program Director, SBInet

Enclosures

cc: Mr. Steve Spangle
Ms. Erin Fernandez
Mr. Jim Rorabaugh
Mr. Robert Miller
Mr. Steve Carhart

TUCSON NEWSPAPERS

Tucson, Arizona

STATE OF ARIZONA)
COUNTY OF PIMA)

Debbie Capanear, being first duly sworn deposes and says: that she is the Legal Advertising Representative of **TNI PARTNERS, commonly known as TUCSON NEWSPAPERS**, a General Partnership organized and existing under the laws of the State of Arizona, and that it prints and publishes the Arizona Daily Star, a daily newspaper printed and published in the City of Tucson, Pima County, State of Arizona, and having a general circulation in said City, County, State and elsewhere, and that the attached

Legal Notice

was printed and published correctly in the entire issue of the said Arizona Daily Star on each of the following dates, to-wit:

NOVEMBER 20, 2009

Debbie Capanear

Subscribed and sworn to before me this 4 day of
December, 2009

Silvia H Valdez
Notary Public



SILVIA H VALDEZ
Notary Public - Arizona
Pima County
Expires 12/15/09

My commission expires _____

TNI AD NO. 6956956

NOTICE OF AVAILABILITY

DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT (SEA) AND PROPOSED FINDING OF NO SIGNIFICANT IMPACT (FONSI) FOR THE PROPOSED SBINET TUCSON WEST TOWER PROJECT, NOGALES AND SONOITA STATIONS' AREAS OF RESPONSIBILITY, U.S. BORDER PATROL, TUCSON SECTOR

U.S. Customs and Border Protection (CBP), a component of the Department of Homeland Security (DHS), announces the availability of and invites public comments on a draft SEA and proposed FONSI for the SBINET Tucson West Tower Project. Pursuant to the National Environmental Policy Act (NEPA) of 1969, 42 United States Code (U.S.C.) 4321 et seq., CBP has prepared the draft SEA and proposed FONSI to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor towers, and supporting infrastructure components within the Tucson Sector. The location for the Proposed Action, which is known as the SBINET Tucson West Tower Project, is the Nogales and Sonoita Stations' areas of responsibility within the Tucson Sector, Santa Cruz County, Arizona.

The draft SEA will be available November 20, 2009 and was prepared in accordance with CBP's obligations under NEPA, the Council on Environmental Quality (CEQ) implementing regulations at 40 Code of Federal Regulations (CFR) Parts 1500-1508, and DHS Management Directive 023-01 (Environmental Planning Program). Copies of the draft SEA and proposed FONSI can be downloaded from the project website at www.cbpp.gov/sbi under the link SBINET NEPA Documents for Public Review and Comment. Additionally, copies will be available in the following libraries for public review:

Nogales-Rochlin Public Library, 518 North Grand Avenue, Nogales, Arizona 85621 (520) 287-3343

Sierra Vista Library, 2600 E. Tacoma Street, Sierra Vista, Arizona 85635 (520) 458-4225
Sonoita Community Library, 3147 State Highway 83, Sonoita, Arizona 85637 (520) 455-5517

Pima County Public Library, 17050 W. Arivaca Rd., Arivaca, Arizona 85701 (520) 594-5600

Pursuant to the NEPA regulations, CBP invites public participation in the NEPA process. The public may participate by reviewing and submitting comments on the draft SEA and proposed FONSI. The public may submit comments by one of three methods described below. CBP will consider all applicable and pertinent comments submitted during the public comment period, and subsequently will prepare the final SEA. CBP will announce the availability of the final SEA and FONSI.

Comments on the draft SEA and proposed FONSI should be received no later than December 21, 2009. Please use only one of the following methods:

- (1) By Email to: NGLSONSEACOMMENTS@cbp.dhs.gov
- (2) By mail to: Ms. Patience E. Patterson, RPA, U.S. Department of Homeland Security, U.S. Customs and Border Protection, SBINET Program Management, 1901 S. Bell Street, Room 7-090, Arlington, Virginia 22202
- (3) By fax to: (571) 468-7390 (Attention: Ms. Patience E. Patterson)

When submitting comments, please include your name and address, and identify your comments as being for the SBINET Tucson West Tower Project draft SEA. To request a hard copy of the draft SEA, please use one of the aforementioned contact methods.

Publish November 20, 2009
Arizona Daily Star

BW1 FOIA CBP 006469

STATE OF ARIZONA)
COUNTY OF COCHISE)

PAMELA M. MCELROY

AFFIDAVIT OF PUBLICATION

being first

duly sworn, deposes and says: That (he) (she) is the Agent to the Publisher of the

PUBLIC NOTICE

NOTICE OF AVAILABILITY
Draft SUPPLEMENTAL
Environmental
Assessment (SEA) and
Proposed Finding of No
Significant Impact (FONSI)
for the Proposed SBINET
Tucson West tower
Project, Nogales and
Sonoma Stations' Areas of
Responsibility, U.S.
Border Patrol, Tucson
Sector, U.S. Customs and
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component of the
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Tower Project, is the
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Stations' areas of
responsibility within the
Tucson Sector, Santa Cruz
County, Arizona.
The draft SEA will be

available November 20,
2009 and was prepared in
accordance with CBP's
obligations under NEPA,
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Environmental Quality
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regulations at 40 Code of
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Documents for Public
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85621 (520) 287-3343.
Sierra Vista Library, 2600
E. Tacoma Street, Sierra
Vista, Arizona 85635 (520)
458-4225. Sonoma
Community Library, 3147
State Highway 83,
Sonoma, Arizona 85637
(520) 455-5517. Pima
County Public Library,
17050 W. Arivaca Rd.,
Arivaca, Arizona 85701
(520) 594-5600. Pursuant
to the NEPA regulations,
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RPA, U.S. Department of
Homeland Security, U.S.
Customs and Border
Protection, SBINET
Program Management,
1901 S. Bell Street, Room
7-090, Arlington, Virginia
22202
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7390 (Attention: Ms.
Patience E. Patterson)
When submitting
comments, please include
your name and address,
and identify your
comments as being for the
SBINET Tucson West Tower
Project draft SEA. To
request a hard copy of the
draft SEA, please use one
of the aforementioned
contact methods.
PUBLISH: November 20
2009

A HERALD and the BISBEE DAILY REVIEW newspapers printed and
lays a week in the County of Cochise, State of Arizona, and of general
the cities of Sierra Vista and Bisbee, County of Cochise, State of Arizona
and hereto attached

NOTICE OF AVAILABILITY FOR THE DRAFT SBINET WEST TOWER

I published correctly in the regular and entire issue of said SIERRA VISTA
BISBEE DAILY REVIEW for 1 issues, that the first was

20th day of NOVEMBER 20 09

publication thereof was made on the 20th day of

NOVEMBER 20 09 that said publication
each of the following dates, to wit:

20 09

Sierra Vista Herald
Bisbee Daily Review

By

Subscribed sworn to before me this 20th day of NOVEMBER

20 09



Notary Public in and for the County of Cochise, State of Arizona

My Commission Expires:

BW1 FOIA CBP 006470

STATE OF ARIZONA)
) SS
COUNTY OF SANTA CRUZ)

AFFIDAVIT OF PUBLICATION
KIMBERLY L. HICKS

[Signature]

being first

Duly sworn, deposes and says: That (he) (she) is the Agent to the Publisher of the NOGALES INTERNATIONAL newspaper printed and published two days week in the City of Nogales, County of Santa Cruz, State of Arizona. That the notice, a copy of which is hereto attached, described as follows:

LEGAL NOTICE

NOTICE OF AVAILABILITY

DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT (SEA) AND PROPOSED FINDING OF NO SIGNIFICANT IMPACT (FONSI) FOR THE PROPOSED SBI/TUCSON WEST TOWER PROJECT, NOGALES AND SONOITA STATIONS' AREAS OF RESPONSIBILITY, U.S. BORDER PATROL, TUCSON SECTOR

U.S. Customs and Border Protection (CBP), a component of the Department of Homeland Security (DHS), announces the availability of and invites public comments on a draft SEA and proposed FONSI for the SBI/Tucson West Tower Project. Pursuant to the National Environmental Policy Act (NEPA) of 1969, 42 United States Code (U.S.C.) 4321 et seq., CBP has prepared the draft SEA and proposed FONSI to identify and assess the potential impacts associated with the proposed siting, construction, operation, and maintenance of sensor towers,

and supporting infrastructure components within the Tucson Sector. The location for the Proposed Action, which is known as the SBI/Tucson West Tower Project, is the Nogales and Sonoita Stations' areas of responsibility within the Tucson Sector, Santa Cruz County, Arizona.

The draft SEA will be available November 20, 2009 and was prepared in accordance with CBP's obligations under NEPA, the Council on Environmental Quality (CEQ) implementing regulations at 40 Code of Federal Regulations (CFR) Parts 1500-1508, and DHS Management Directive 023-01 (Environmental Planning Program). Copies of the draft SEA and proposed FONSI can be downloaded from the project website at www.cbp.gov/sbi under the link SBI NEPA Documents for Public Review and Comment. Additionally, copies will be

**NOTICE OF AVAILABILITY
DRAFT SUPPLEMENTAL ENVIRONMENTAL**

was printed and published in the regular and entire issue of said

NOGALES INTERNATIONAL for 1 issues, that the first was

made on the 20th day of NOVEMBER 2009

and the last publication thereof was made on the 20th day of

NOVEMBER 2009 that said publication

was made on each of the following dates, to wit:

11/20/09

Request of

GSRC ATTN: SHANNA MCCARTY

NOGALES INTERNATIONAL
268 W VIEW POINT, NOGALES, AZ 85621 (520)281-9706

By

Patricia J. Aguirre

Subscribed sworn to before me this 20th day of NOVEMBER

20 09



Notary Public in and for the County of Santa Cruz, State of Arizona

My Commission Expires:

March 25, 2012

BW1 FOIA CBP 006471

RESPONSIBILITY, U.S. BORDER
TROL, TUCSON SECTOR

S. Customs and Border Pro-
ction (CBP), a component of
re Department of Homeland
ecurity (DHS), announces
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tions' areas of responsibility
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The draft SEA will be available
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Tacoma Street, Sierra Vista,
Arizona 85635 (520) 458-4225

Sonoita Community Library,
3147 State Highway 83,
Sonoita, Arizona 85637 (520)
455-5517

Pima County Public Library,
17050 W. Arivaca Rd., Arivaca,
Arizona 85701 (520) 594-5600

Pursuant to the NEPA regula-
tions, CBP invites public par-
ticipation in the NEPA proc-
ess. The public may partici-
pate by reviewing and sub-
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quently will prepare the final
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availability of the final EA and
FONSI.

Comments on the draft SEA
and proposed FONSI should
be received no later than De-
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only one of the following
methods:

(1) By Email to: [NGLSONSEA-
comments@cbp.dhs.gov](mailto:NGLSONSEA-comments@cbp.dhs.gov)

(2) By mail to: Ms. Patience E.
Patterson, RPA, U.S. Depart-
ment of Homeland Security,
U.S. Customs and Border Pro-
tection, SBI/Tucson Program Man-
agement, 1901 S. Bell Street,
Room 7-090, Arlington, Vir-
ginia 22202

(3) By fax to: (571) 468-7390
(Attention: Ms. Patience E.
Patterson)

When submitting comments,
please include your name and
address, and identify your
comments as being for the
SBI/Tucson West Tower
Project draft SEA. To request
a hard copy of the draft SEA,
please use one of the afore-
mentioned contact methods.

Req: Tucson sea noa
Pub: 11/20/2009

made on the 20th day of NOVEMBER 2009
and the last publication thereof was made on the 20th day of
NOVEMBER 2009 that said publication
was made on each of the following dates, to wit:
11/20/09

Request of
GSRC ATTN: SHANNA MCCARTY

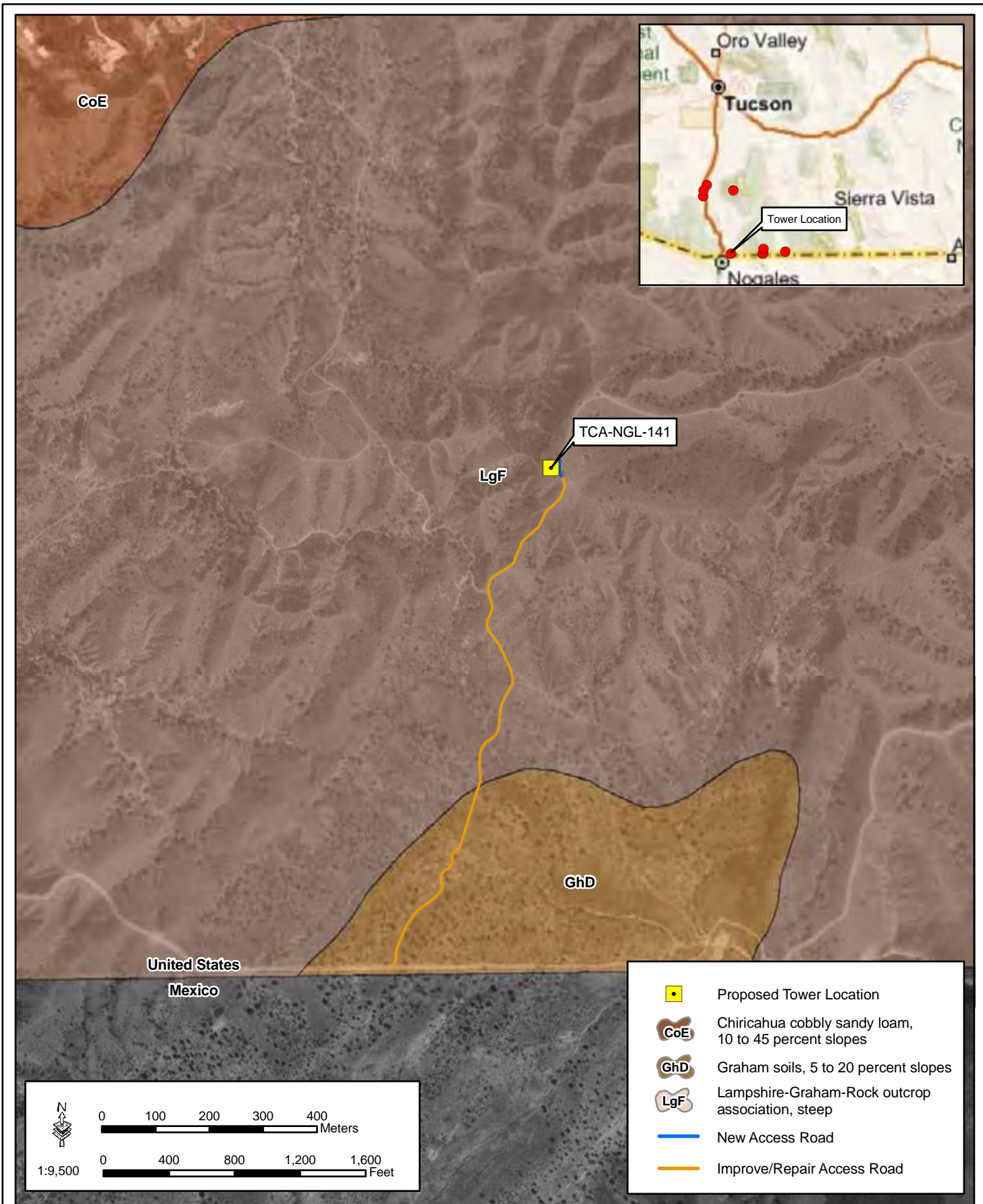
NOGALES INTERNATIONAL
268 W VIEW POINT, NOGALES, AZ 85621 (520)281-9706
By

Patricia J. Aguirre
Subscribed sworn to before me this 20th day of NOVEMBER
20 09



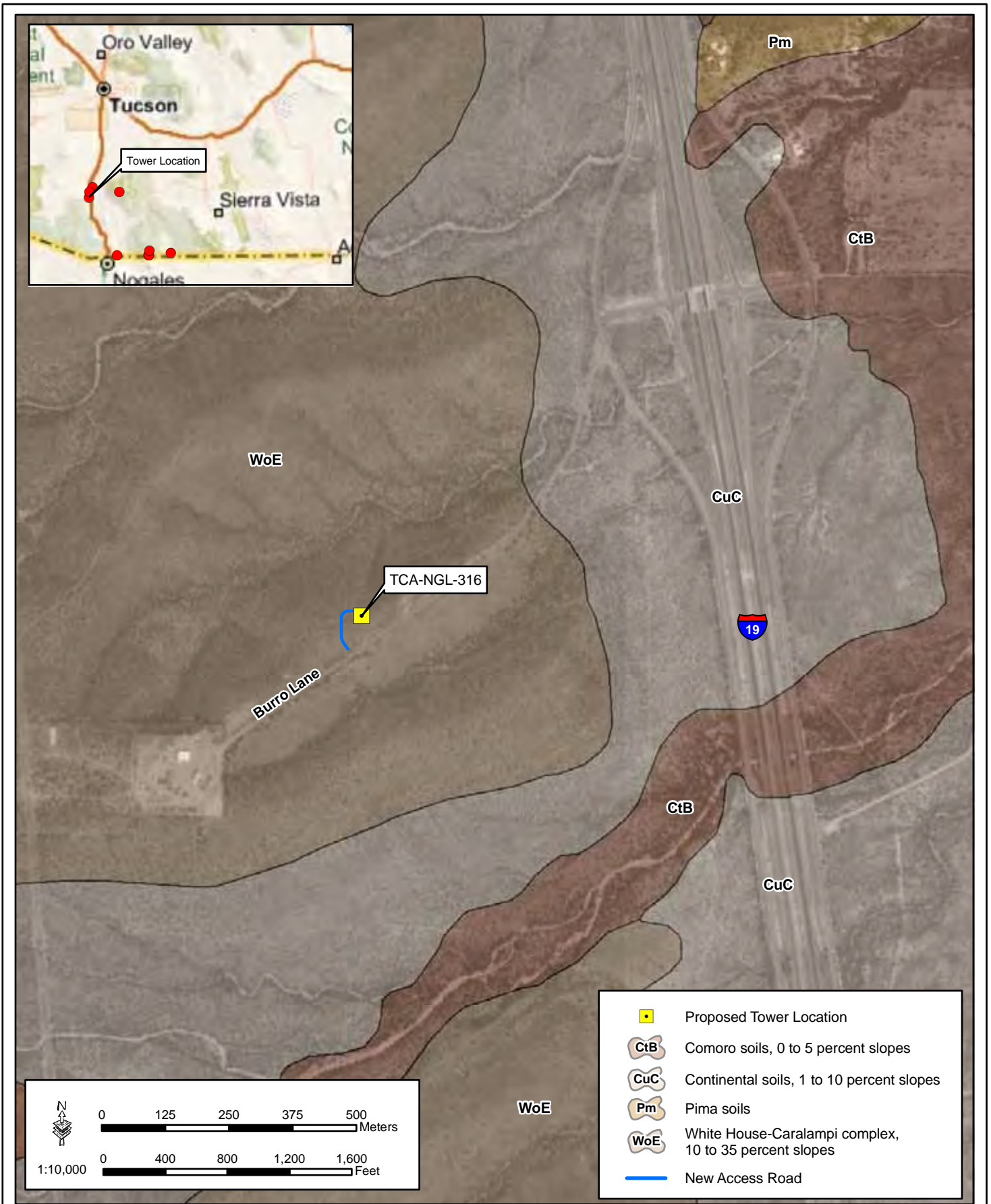
Notary Public in and for the County of Santa Cruz, State of Arizona
My Commission Expires:
March 25, 2012

APPENDIX B
SOIL SURVEY MAPS



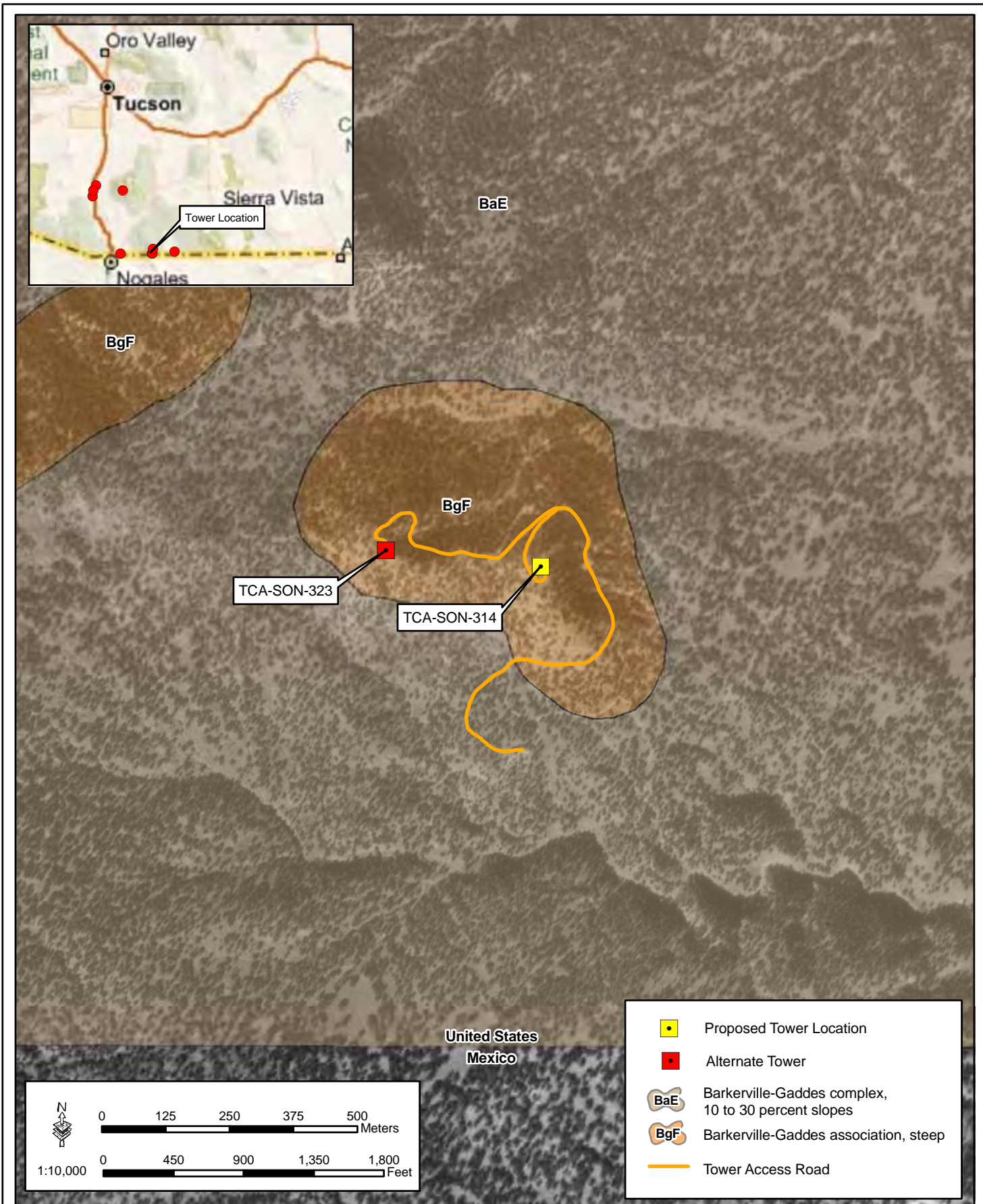
TCA-NGL-141 Soil Survey Map





TCA-NGL-316 Soil Survey Map





TCA-SON-314 and TCA-SON-323 Soil Survey Map



August 2009

APPENDIX C
THREATENED AND ENDANGERED SPECIES

Santa Cruz County

COMMON NAME	SCIENTIFIC NAME	STATUS	DESCRIPTION	COUNTY	ELEVATION	HABITAT	COMMENTS
Canelo Hills ladies' tresses	<i>Spiranthes delitescens</i>	Endangered	Slender, erect member of the orchid family (Orchidaceae). Flower stalk 20 inches tall, may contain 40 white flowers spirally arranged on the flowering stalk.	Cochise, Santa Cruz	~ 5,000 ft	Finely grained, highly organic, saturated soils of cienegas.	Found in the San Pedro watershed. Potential habitat occurs in Sonora, Mexico, but no populations have been found.
Chiricahua leopard frog	<i>Lithobates [Rana] chiricahuensis</i>	Threatened	Cream colored tubercles (spots) on a dark background on the rear of the thigh, dorsolateral folds that are interrupted and deflected medially, and a call given out of water distinguish this spotted frog from other leopard frogs.	Apache, Cochise, Coconino, Gila, Graham, Greenlee, Navajo, Pima, Santa Cruz, Yavapai	3,300-8,900 ft	Streams, rivers, backwaters, ponds, and stock tanks that are mostly free from introduced fish, crayfish, and bullfrogs.	Require permanent or nearly permanent water sources. Populations north of the Gila River may be a closely-related, but distinct, undescribed species. A special rule allows take of frogs due to operation and maintenance of livestock tanks on State and private lands.
Desert pupfish	<i>Cyprinodon macularius</i>	Endangered	Small (2 inches) smoothly rounded body shape with narrow vertical bars on the sides. Breeding males blue on head and sides with yellow on tail. Females and juveniles tan to olive colored back and silvery sides.	Cochise, Graham, Maricopa, Pima, Santa Cruz, Yavapai	< 4,000 ft	Shallow springs, small streams, and marshes. Tolerates saline and warm water.	Two subspecies are recognized: Desert Pupfish (C.m. macularis) and Quitobaquito Pupfish (C.m. eremus). Critical habitat includes Quitobaquito Springs, Pima County, portions of San Felipe Creek, Carrizo Wash, and Fish Creek Wash, Imperial County, California.
Gila chub	<i>Gila intermedia</i>	Endangered	Deep compressed body, flat head. Dark olive-gray color above, silver sides. Endemic to Gila River Basin.	Cochise, Gila, Graham, Greenlee, Pima, Pinal, Santa Cruz, Yavapai	2,000-5,500 ft	Pools, springs, cienegas, and streams.	Found on multiple private lands, including the Nature Conservancy and the Audubon Society. Also occurs on Federal and state lands and in Sonora, Mexico. Critical habitat occurs in Cochise, Gila, Graham, Greenlee, Pima, Pinal, Santa Cruz, and Yavapai counties.
Gila topminnow	<i>Poeciliopsis occidentalis occidentalis</i>	Endangered	Small (2 inches), guppy-like, live bearing, lacks dark spots on its fins. Breeding males are jet black with yellow fins.	Cochise, Gila, Graham, Maricopa, Pima, Santa Cruz, Yavapai	< 4,500 ft	Small streams, springs, and cienegas vegetated shallows.	Species historically also occurred in backwaters of large rivers but is currently isolated to small streams and springs.

COMMON NAME	SCIENTIFIC NAME	STATUS	DESCRIPTION	COUNTY	ELEVATION	HABITAT	COMMENTS
Huachuca water umbel	<i>Lilaeopsis schaffneriana ssp. recurva</i>	Endangered	Herbaceous, semi-aquatic perennial in the parsley family (Umbelliferae) with slender erect, hollow, leaves that grow from the nodes of creeping rhizomes. Flower: 3 to 10 flowered umbels arise from root nodes.	Cochise, Pima, Santa Cruz	3,500-6,500 ft	Cienegas, perennial low gradient streams, wetlands.	Species also occurs in adjacent Sonora, Mexico, west of the continental divide. Critical habitat in Cochise and Santa Cruz counties (64 FR 37441, July 12, 1999).
Jaguar	<i>Panthera onca</i>	Endangered	Largest species of cat native to Southwest. Muscular, with relatively short, massive limbs, and a deep-chested body. Usually cinnamon-buff in color with many black spots. Weights ranges from 90-300 lbs.	Cochise, Santa Cruz, Pima	1,600-9,000 ft	Found in Sonoran desertscrub up through subalpine conifer forest.	Also occurs in New Mexico. A Jaguar conservation team is being formed that is being led by Arizona and New Mexico state entities along with private organizations.
Lesser long-nosed bat	<i>Leptonycteris curasoae yerbabuenae</i>	Endangered	Elongated muzzle, small leaf nose, and long tongue. Yellowish brown or gray above and cinnamon brown below. Tail minute and appears to be lacking. Easily disturbed.	Cochise, Gila, Graham, Greenlee, Pima, Maricopa, Santa Cruz, Yuma	1,600-11,500 ft	Desert scrub habitat with agave and columnar cacti present as food plants.	Day roosts in caves and abandoned tunnels. Forages at night on nectar, pollen, and fruit of paniculate agaves and columnar cacti. This species is migratory and is present in Arizona usually from April to September and south of the border the remainder of the year.
Mexican spotted owl	<i>Strix occidentalis lucida</i>	Threatened	Medium sized with dark eyes and no ear tufts. Brownish and heavily spotted with white or beige.	Apache, Cochise, Coconino, Gila, Graham, Greenlee, Maricopa, Mohave, Navajo, Pima, Pinal, Santa Cruz, Yavapai	4,100-9,000 ft	Nests in canyons and dense forests with multi-layered foliage structure.	Generally nest in older forests of mixed conifer or ponderosa pine/gambel oak type, in canyons, and use variety of habitats for foraging. Sites with cool microclimates appear to be of importance or are preferred. Critical habitat was finalized on August 31, 2004 (69 FR 53182) in Arizona in Apache, Cochise, Coconino, Gila, Graham, Greenlee, Maricopa, Navajo, Pima, Pinal, Santa Cruz, and Yavapai counties.
Ocelot	<i>Leopardus (=Felis) pardalis</i>	Endangered	Medium-sized spotted cat that is yellowish with black streaks and stripes running from front to back. Tail is spotted and about 1/2 the length of head and body. Face is less heavily streaked than the back and sides.	Cochise, Pima, Santa Cruz	< 8,000 ft	Desert scrub in Arizona. Humid tropical and sub-tropical forests, and savannahs in areas south of the U.S.	May persist in partly-cleared forests, second-growth woodland, and abandoned cultivated areas reverted to brush. Universal component is presence of dense cover. Unconfirmed reports of individuals in the southern part of the State continue to be received.

COMMON NAME	SCIENTIFIC NAME	STATUS	DESCRIPTION	COUNTY	ELEVATION	HABITAT	COMMENTS
Pima pineapple cactus	<i>Coryphantha scheeri</i> var. <i>robustispina</i>	Endangered	Hemispherical stems 4-7 inches tall 3-4 inches diameter. Central spine 1 inch long straw colored hooked surrounded by 6-15 radial spines. Flower: yellow, salmon, or rarely white narrow floral tube.	Pima, Santa Cruz	2,300-5,000 ft	Sonoran desertscrub or semi-desert grassland communities.	Occurs in alluvial valleys or on hillsides in rocky to sandy or silty soils. This species can be confused with juvenile barrel cactus (<i>Ferocactus</i>). However, the spines of the later are flattened, in contrast with the round cross-section of the <i>Coryphantha</i> spines. About 80-90% of individuals occur on state or private land.
Sonora chub	<i>Gila ditaenia</i>	Threatened	Minnow (<5 inches long) moderately chubby, dark-colored fish with two prominent black lateral bands on the sides and a dark oval spot at the base of the tail. Breeding males have red lower fins and a orange belly.	Santa Cruz	3,900 ft	Perennial and intermittent, small to moderate sized streams with boulders and cliffs.	Critical habitat includes Sycamore Creek (Santa Cruz County) and a 15 meter buffer from the U.S.- Mexico border to approximately 8 km upstream; Yank Spring; lowermost 2 km of Penasco Creek; and lowermost 0.4 km of an unnamed Sycamore Creek tributary. Species extends into Mexico (Altar and Magdalena rivers).
Sonoran tiger salamander	<i>Ambystoma mavortium stebbinsi</i>	Endangered	Large, light-colored blotches or reticulations on a dark background. Metamorphosed individuals are 1.8 to 5.9 inches in snout-vent length. Aquatic larvae are uniform dark colored with plume-like gills and developed tail fins.	Cochise, Santa Cruz	4,000-6,300 ft	Stock tanks and impounded cienegas; rodent burrows, rotted logs, and other moist cover sites.	Populations occur within the headwaters of the Santa Cruz and San Pedro Rivers. These include San Rafael Valley and in the foothills of the east slope of the Patagonia and Huachuca Mountains and Fort Huachuca.
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	Endangered	Small passerine (about 6 inches) grayish-green back and wings, whitish throat, light olive-gray breast and pale yellowish belly. Two wingbars visible. Eye-ring faint or absent.	Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Maricopa, Mohave, Navajo, Pima, Pinal, Santa Cruz, Yavapai, Yuma	< 8,500 ft	Cottonwood/willow and tamarisk vegetation communities along rivers and streams.	Migratory riparian-obligate species that occupies breeding habitat from late April to September. Distribution within its range is restricted to riparian corridors. Difficult to distinguish from other members of the <i>Empidonax</i> complex by sight alone. Training seminar required for those conducting flycatcher surveys. Critical habitat was finalized on October 19, 2005 (50 CFR 60886). In Arizona there are critical habitat segments in Apache, Cochise, Gila, Graham, Greenlee, Maricopa, Mohave, Pima, Pinal, and Yavapai counties.

COMMON NAME	SCIENTIFIC NAME	STATUS	DESCRIPTION	COUNTY	ELEVATION	HABITAT	COMMENTS
Arizona trefrog (Huachuca/Canelo DPS)	<i>Hyla wrightorum</i>	Candidate	Small (1.8 inches in length) green frog; dark eye stripe extends past shoulder onto the sides of the body, may break into spots or dashes past shoulder, throat on males dusky green or tan; larger tadpoles golden brown above and below with mottled black tails.	Cochise, Santa Cruz	5,000-8,500 ft	Madrean oak woodlands, savannah, pine-oak woodlands, and mixed conifer forests.	Known from less than 20 localities in the Huachuca Mountains and adjacent Canelo Hills. Believed this population is geographically disjunct from the other known locality in the wetlands at Rancho Los Fresnos, Sonora, Mexico.
Huachuca springsnail	<i>Pyrgulopsis thompsoni</i>	Candidate	Very small (.06-.12 inches) conical shell. Identification must be verified by characteristics of reproductive organs.	Cochise, Santa Cruz	4,500-7,200 ft	Aquatic areas, small springs with vegetation and slow to moderate flow.	Individuals found on firm substances (roots, wood, and rocks). Other populations found on Fort Huachuca.
Northern Mexican Gartersnake	<i>Thamnophis eques megalops</i>	Candidate	Background color ranges from olive, olive-brown, to olive-gray. Body has three yellow or light colored stripes running down the length of the body, darker towards tail. Species distinguished from other native gartersnakes by the lateral stripes reaching the 3rd and 4th scale rows. Paired black spots extend along dorsolateral fields.	Apache, Coconino, Cochise, Gila, Graham, Navajo, Pima, Pinal, Santa Cruz, Yavapai	130-8,500 ft	Cienegas, stock tanks, large-river riparian woodlands and forests, streamside gallery forests.	Core population areas in the U.S. include mid/upper Verde River drainage, mid/lower Tonto Creek, and the San Rafael Valley and surrounding area. Status on tribal lands unknown. Distributed south into Mexico along the Sierra Madre Occidental and Mexican Plateau. Strongly associated with the presence of a native prey base including leopard frogs and native fish.
Stephan's riffle beetle	<i>Heterelmis stephani</i>	Candidate	Small aquatic beetle, typically less than 0.11 inches in total length.	Santa Cruz	5,100-6,600 ft	Free-flowing springs and seeps, commonly referred to as rheocrenes.	Current distribution is limited to Sylvester Spring. Historically known from Bog Springs, the type locality. Both springs located in Madera Canyon on the Coronado National Forest.

COMMON NAME	SCIENTIFIC NAME	STATUS	DESCRIPTION	COUNTY	ELEVATION	HABITAT	COMMENTS
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	Candidate	Medium-sized bird with a slender, long-tailed profile, slightly down-curved bill that is blue-black with yellow on the lower half. Plumage is grayish-brown above and white below, with rufous primary flight feathers.	Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Maricopa, Mohave, Navajo, Pima, Pinal, Santa Cruz, Yavapai, Yuma	< 6,500 ft	Large blocks of riparian woodlands (cottonwood, willow, or tamarisk galleries).	Neotropical migrant that winters primarily in South America and breeds primarily in the U.S. (but also in southern Canada and northern Mexico). As a migrant it is rarely detected; can occur outside of riparian areas. Cuckoos are found nesting statewide, mostly below 5,000 feet in central, western, and southeastern Arizona. Concern for cuckoos are primarily focused upon alterations to its nesting and foraging habitat. Nesting cuckoos are associated with relatively dense, wooded, streamside riparian habitat, with varying combinations of Fremont cottonwood, willow, velvet ash, Arizona walnut, mesquite, and tamarisk. Some cuckoos have also been detected nesting in velvet mesquite, netleaf hackberry, Arizona sycamore, Arizona alder, and some exotic neighborhood shade trees.
American peregrine falcon	<i>Falco peregrinus anatum</i>	Delisted	A crow-sized falcon with slate blue-gray on the back and wings, and white on the underside; a black head with vertical "bandit's mask" pattern over the eyes; long pointed wings; and a long wailing call made during breeding. Very adept flyers and hunters, reaching diving speeds of 200 mph.	Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Maricopa, Mohave, Navajo, Pima, Pinal, Santa Cruz, Yavapai, Yuma	3,500-9,000 ft	Areas with rocky, steep cliffs, primarily near water, where prey (primarily shorebirds, songbirds, and waterfowl) concentrations are high. Nests are found on ledges of cliffs, and sometimes on man-made structures such as office towers and bridge abutments.	Species recovered with over 1,650 breeding birds in the US and Canada.

Special Status Species by County, Taxon, Scientific Name

Arizona Game and Fish Department, Heritage Data management System

Updated: **June 01, 2009**

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Apache	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4
Apache	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Apache	AMPHIBIAN	Lithobates pipiens	Northern Leopard Frog	AAABH01170		S	S	2		WSC	G5	S2
Apache	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Apache	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Apache	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Apache	BIRD	Catharus fuscescens	Veery	ABPBJ18080						WSC	G5	S1
Apache	BIRD	Charadrius montanus	Mountain Plover	ABNNB03100	SC		S	4			G2	S1B,S2N
Apache	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Apache	BIRD	Dolichonyx oryzivorus	Bobolink	ABPBXA9010						WSC	G5	S1
Apache	BIRD	Dumetella carolinensis	Gray Catbird	ABPBK01010						WSC	G5	S1
Apache	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Apache	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Apache	BIRD	Haliaeetus leucocephalus	Bald Eagle	ABNKC10010	LT,DPS	S	S	2	P	WSC	G5	S2S3B,S4N
Apache	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Apache	BIRD	Megaceryle alcyon	Belted Kingfisher	ABNXD01020				4		WSC	G5	S2B,S5N
Apache	BIRD	Pandion haliaetus	Osprey	ABNKC01010		S				WSC	G5	S2B,S4N
Apache	BIRD	Pica hudsonia	Black-billed Magpie	ABPAV09010						WSC	G5	S3
Apache	BIRD	Pinicola enucleator	Pine Grosbeak	ABPBY03010						WSC	G5	S1
Apache	BIRD	Setophaga ruticilla	American Redstart	ABPBX06010						WSC	G5	S1
Apache	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Apache	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Apache	FISH	Catostomus discobolus discobolus	Bluehead Sucker	AFCJC02072			S	4			G4T4	S3
Apache	FISH	Catostomus discobolus yarrowi	Zuni Bluehead (Mountain) Sucker	AFCJC02071	C		S	4		WSC	G4T1	S1
Apache	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Apache	FISH	Catostomus sp. 3	Little Colorado Sucker	AFCJC02250	SC	S	S			WSC	G2	S2
Apache	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Apache	FISH	Lepidomeda vittata	Little Colorado Spinedace	AFCJB20040	LT		S			WSC	G1G2	S1S2
Apache	FISH	Oncorhynchus apache	Apache Trout	AFCHA02102	LT		S			WSC	G3T3	S3
Apache	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Apache	FISH	Tiaroga cobitis	Loach Minnow	AFCJB37140	LT		S		P	WSC	G2	S1
Apache	INVERTEBRATE	Anodonta californiensis	California Floater	IMBIV04020	SC		S				G3Q	S1
Apache	INVERTEBRATE	Daihinibaenetes arizonensis	Arizona Giant Sand Treader Cricket	IIORT21010	SC		S				G1G3	S1S3
Apache	INVERTEBRATE	Psephenus montanus	White Mountains Water Penny Beetle	IICOL63020	SC		S				G2?	S2?
Apache	INVERTEBRATE	Pyrgulopsis trivialis	Three Forks Springsnail	IMGASJ0560	C	S	S				G1	S1
Apache	INVERTEBRATE	Speyeria nokomis nitocris	Mountain Silverspot Butterfly	IILEPJ6052			S				G3T3	S3
Apache	MAMMAL	Euderma maculatum	Spotted Bat	AMACC07010	SC	S			PR	WSC	G4	S1S2
Apache	MAMMAL	Idionycteris phyllotis	Allen's Big-eared Bat	AMACC09010	SC						G3G4	S2S3
Apache	MAMMAL	Microtus mexicanus navaho	Navajo Mexican Vole	AMAFF11213	SC		S	4		WSC	G5T2Q	S1
Apache	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3
Apache	MAMMAL	Myotis volans	Long-legged Myotis	AMACC01110	SC						G5	S3S4
Apache	MAMMAL	Perognathus flavus goodpasteri	Springerville Pocket Mouse	AMAFD01031	SC		S				G5T3	S2
Apache	MAMMAL	Sorex palustris	American Water Shrew	AMABA01150						WSC	G5	S1
Apache	MAMMAL	Spermophilus tridecemlineatus monticola	White Mountains Ground Squirrel	AMAFB05092			S				G5T3	S1S2
Apache	MAMMAL	Zapus hudsonius luteus	New Mexican Jumping Mouse	AMAFH01014	C		S			WSC	G5T2	S1
Apache	PLANT	Allium gooddingii	Goodding Onion	PMLIL02120	SC		S	3		HS	G4	S3S4
Apache	PLANT	Astragalus nutriosensis	Nutrioso Milk-vetch	PDFAB0FB70	SC					SR	G3?	S3?
Apache	PLANT	Astragalus xiphoides	Gladiator Milk Vetch	PDFAB0F9T0	SC					SR	G3	S3
Apache	PLANT	Botrychium crenulatum	Crenulate Moonwort	PPOPH010L0	SC		S				G3	S1
Apache	PLANT	Calypso bulbosa	Western Fairy Slipper	PMORC0D010						SR	G5	S3
Apache	PLANT	Carex chihuahuensis	A Sedge	PMCYP032T0			S				G3G4	S2S3
Apache	PLANT	Carex specuicola	Navajo Sedge	PMCYP03CQ0	LT			3		HS	G2	S2
Apache	PLANT	Castilleja mogollonica	White Mountains Paintbrush	PDSCR0D3Q0	SC		S			SR	G1Q	S1
Apache	PLANT	Chrysothamnus molestus	Tusayan Rabbitbrush	PDAST2C060	SC		S				G3	S3
Apache	PLANT	Cypripedium parviflorum var. pubescens	Yellow Lady's-slipper	PMORC0Q092				4		HS	G5T5	S1
Apache	PLANT	Draba standleyi	Standley Whitlow-grass	PDBRA112G0	SC						G2G3	S2S3

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Apache	PLANT	Eremocrinum albomarginatum	Utah Solitaire Lily	PMLIL0T010			S			SR	G3	S2
Apache	PLANT	Erigeron rhizomatus	Zuni (Rhizome) Fleabane	PDAST3M3N0	LT			2			G2	S1
Apache	PLANT	Goodyera repens	Lesser Rattlesnake Plantain	PMORC17030						SR	G5	S2
Apache	PLANT	Ipomoea plummerae var. cuneifolia	Huachuca Morning Glory	PDCON0A141			S				G4T3	S3
Apache	PLANT	Malaxis porphyrea	Purple Adder's Mouth	PMORC1R0Q0						SR	G4	S2
Apache	PLANT	Mammillaria wrightii var. wrightii	Wright Fishhook Cactus	PDCAC0A0E2						SR	G4T3	S1
Apache	PLANT	Platanthera hyperborea	Boreal Bog Orchid	PMORC1Y0B0						SR	G5	S3S4
Apache	PLANT	Platanthera purpurascens	Slender Bog Orchid	PMORC1Y0P0						SR	G5	S4
Apache	PLANT	Puccinellia parishii	Parish Alkali Grass	PMPOA530T0	SC			4		HS	G2G3	S2
Apache	PLANT	Rumex orthoneurus	Blumer's Dock	PDPGN0P0Z0	SC		S			HS	G3	S3
Apache	PLANT	Salix arizonica	Arizona Willow	PDSAL02080			S			HS	G2G3	S2
Apache	PLANT	Senecio quaerens	Gila Groundsel	PDAST8H2L0	SC		S			SR	G2	S2
Apache	PLANT	Stellaria porsildii	Porsild's Starwort	PDCAR0X160			S				G1	S1
Apache	PLANT	Streptopus amplexifolius	White Mandarin Twisted Stalk	PMLIL1X010						SR	G5	S2S3
Apache	PLANT	Trifolium neurophyllum	White Mountains Clover	PDFAB401N0	SC		S				G2	S2
Apache	PLANT	Zigadenus virescens	Green Death Camas	PMLIL280E0						SR	G4	S4
Apache	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Apache	REPTILE	Thamnophis rufipunctatus	Narrow-headed Gartersnake	ARADB36110	SC	S	S			WSC	G3G4	S1
Cochise	AMPHIBIAN	Ambystoma tigrinum stebbinsi	Sonora Tiger Salamander	AAAAA01145	LE				PR	WSC	G5T1T2	S1
Cochise	AMPHIBIAN	Eleutherodactylus augusti cactorum	Western Barking Frog	AAABD04171		S	S			WSC	G5T5	S2
Cochise	AMPHIBIAN	Hyla wrightorum (Huachucas/Canelo Hills Pop.)	Huachucas/Canelo Hills Treefrog	AAABC02082	C,DPS						G4T2	S1
Cochise	AMPHIBIAN	Lithobates blairi	Plains Leopard Frog	AAABH01040						WSC	G5	S1
Cochise	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Cochise	AMPHIBIAN	Lithobates subaquavocalis	Ramsey Canyon Leopard Frog	AAABH01280	SC	S	S				G1Q	S1
Cochise	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Cochise	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Cochise	BIRD	Amazilia violiceps	Violet-crowned Hummingbird	ABNUC29150						WSC	G5	S3
Cochise	BIRD	Ammodramus bairdii	Baird's Sparrow	ABPBXA0010	SC	S				WSC	G4	S2N
Cochise	BIRD	Anthus spragueii	Sprague's Pipit	ABPBM02060						WSC	G4	S2N

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Cochise	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Cochise	BIRD	Buteo nitidus maxima	Northern Gray Hawk	ABNKC19011	SC	S	S		PR	WSC	G5T4Q	S3
Cochise	BIRD	Buteo swainsoni	Swainson's Hawk	ABNKC19070		S					G5	S3
Cochise	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Cochise	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Cochise	BIRD	Dendrocygna autumnalis	Black-bellied Whistling-Duck	ABNJB01040						WSC	G5	S3
Cochise	BIRD	Dumetella carolinensis	Gray Catbird	ABPBK01010						WSC	G5	S1
Cochise	BIRD	Empidonax fulvifrons pygmaeus	Northern Buff-breasted Flycatcher	ABPAE33141	SC					WSC	G5T5	S1
Cochise	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Cochise	BIRD	Euptilotis neoxenus	Eared Quetzal	ABNWA03010			S		A		G3	SAB,S1N
Cochise	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Cochise	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Cochise	BIRD	Ictinia mississippiensis	Mississippi Kite	ABNKC09010		S			A	WSC	G5	S3
Cochise	BIRD	Plegadis chihi	White-faced Ibis	ABNGE02020	SC						G5	S?B,S2S3N
Cochise	BIRD	Poliophtila nigriceps	Black-capped Gnatcatcher	ABPBJ08040						WSC	G5	S1
Cochise	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Cochise	BIRD	Trogon elegans	Elegant Trogon	ABNWA02070						WSC	G5	S3
Cochise	BIRD	Tyrannus crassirostris	Thick-billed Kingbird	ABPAE52040		S				WSC	G5	S2
Cochise	BIRD	Tyrannus melancholicus	Tropical Kingbird	ABPAE52010						WSC	G5	S3
Cochise	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Cochise	FISH	Agosia chrysogaster ssp. 1	Yaqui Longfin Dace	AFCJB37152	SC	S			A		G4T1	S1
Cochise	FISH	Campostoma ornatum	Mexican Stoneroller	AFCJB03030	SC		S		P	WSC	G3	S1
Cochise	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Cochise	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Cochise	FISH	Cyprinella formosa	Beautiful Shiner	AFCJB49080	LT				A	WSC	G2	S1
Cochise	FISH	Gila intermedia	Gila Chub	AFCJB13160	LE		S		P	WSC	G2	S2
Cochise	FISH	Gila purpurea	Yaqui Chub	AFCJB13140	LE				P	WSC	G1	S1
Cochise	FISH	Ictalurus pricei	Yaqui Catfish	AFCKA01090	LT				PR	WSC	G2	S1
Cochise	FISH	Poeciliopsis occidentalis sonoriensis	Yaqui Topminnow	AFCNC05022	LE				A	WSC	G3T3	S1

BW1 FOIA CBP 006492

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Cochise	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Cochise	INVERTEBRATE	Agathymus aryxna	Arizona Giant Skipper	IILEP87080			S				G4G5	S5
Cochise	INVERTEBRATE	Agathymus evansi	Huachuca Giant-skipper	IILEP87110			S				G2G3	S3
Cochise	INVERTEBRATE	Agathymus neumogeni	Neumogen's Giant Skipper	IILEP87010			S				G4G5	S3
Cochise	INVERTEBRATE	Anthocharis cethura	Desert Orangetip	IILEPA6010			S				G4G5	S4
Cochise	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Cochise	INVERTEBRATE	Discus shimekii	Striate Disc	IMGAS54120	SC						G5	S2?
Cochise	INVERTEBRATE	Erynnis scudderi	Scudder's Dusky Wing	IILEP37070			S				G4G5	S1S2
Cochise	INVERTEBRATE	Neophasia terlooii	Chiricahua Pine White	IILEP99020			S				G3G4	S4
Cochise	INVERTEBRATE	Psephenus arizonensis	Arizona Water Penny Beetle	IICOL63010	SC		S				G2?	S2?
Cochise	INVERTEBRATE	Pyrgulopsis bernardina	San Bernardino Springsnail	IMGASJ0950	C	S	S				G1	S1
Cochise	INVERTEBRATE	Pyrgulopsis thompsoni	Huachuca Springsnail	IMGASJ0230	C	S	S				G2	S2
Cochise	INVERTEBRATE	Stygobromus arizonensis	Arizona Cave Amphipod	ICMAL05360	SC		S				G1	S1?
Cochise	INVERTEBRATE	Sympetrum signiferum	Mexican Meadowfly	IIDO061150			S				G2G3	S2
Cochise	MAMMAL	Choeronycteris mexicana	Mexican Long-tongued Bat	AMACB02010	SC	S			A	WSC	G4	S3
Cochise	MAMMAL	Corynorhinus townsendii pallascens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Cochise	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Cochise	MAMMAL	Idionycteris phyllotis	Allen's Big-eared Bat	AMACC09010	SC						G3G4	S2S3
Cochise	MAMMAL	Lasiurus blossevillei	Western Red Bat	AMACC05060		S				WSC	G5	S3
Cochise	MAMMAL	Lasiurus xanthinus	Western Yellow Bat	AMACC05070		S				WSC	G5	S2S3
Cochise	MAMMAL	Leptonycteris curasoae yerbabuena	Lesser Long-nosed Bat	AMACB03030	LE		S			WSC	G4	S2S3
Cochise	MAMMAL	Myotis ciliolabrum	Western Small-footed Myotis	AMACC01140	SC						G5	S3S4
Cochise	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3
Cochise	MAMMAL	Myotis thysanodes	Fringed Myotis	AMACC01090	SC						G4G5	S3S4
Cochise	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Cochise	MAMMAL	Myotis volans	Long-legged Myotis	AMACC01110	SC						G5	S3S4
Cochise	MAMMAL	Nyctinomops macrotis	Big Free-tailed Bat	AMACD04020	SC						G5	S3
Cochise	MAMMAL	Panthera onca	Jaguar	AMAJH02010	LE		S		P	WSC	G3	S1
Cochise	MAMMAL	Sciurus nayaritensis chiricahuae	Chiricahua Fox Squirrel	AMAFB07051	SC		S				G5T2	S2

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Cochise	MAMMAL	Sigmodon ochrognathus	Yellow-nosed Cotton Rat	AMAFF07040	SC						G4G5	S4
Cochise	MAMMAL	Sorex arizonae	Arizona Shrew	AMABA01240	SC		S		P	WSC	G3	S2
Cochise	MAMMAL	Thomomys bottae mearnsi	Mearns' Southern Pocket Gopher	AMAF0102G	SC						G5T5	S5
Cochise	PLANT	Allium plummerae	Plummer Onion	PMLIL021V0						SR	G4	S3
Cochise	PLANT	Allium rhizomatum	Redflower Onion	PMLIL02320			S			SR	G3?Q	S1
Cochise	PLANT	Apacheria chiricahuensis	Chiricahua Rock Flower	PDCRO01010						SR	G2	S2
Cochise	PLANT	Arabis tricornuta	Chiricahua Rock Cress	PDBRA06200			S				G1?	S1?
Cochise	PLANT	Asclepias lemmonii	Lemmon Milkweed	PDASC020Z0			S				G4?	S2
Cochise	PLANT	Asplenium dalhousiae	Dalhouse Spleenwort	PPASP020A0		S					GNR	S1
Cochise	PLANT	Astragalus cobrensis var. maguirei	Coppermine Milk-vetch	PDFAB0F262	SC		S			SR	G4T2	S1
Cochise	PLANT	Astragalus hypoxylus	Huachuca Milk-vetch	PDFAB0F470	SC	S	S			SR	G1	S1
Cochise	PLANT	Carex chihuahuensis	A Sedge	PMCYP032T0			S				G3G4	S2S3
Cochise	PLANT	Carex ultra	Arizona Giant Sedge	PMCYP03E50		S	S				G3?	S2
Cochise	PLANT	Castilleja nervata	Trans-pecos Indian-paintbrush	PDSCR0D270			S				G3Q	S1
Cochise	PLANT	Cleome multicaulis	Playa Spider Plant	PDCPP03080	SC					SR	G2G3	S1
Cochise	PLANT	Coryphantha robbinsorum	Cochise Pincushion Cactus	PDCAC0X0C0	LT					HS	G1	S1
Cochise	PLANT	Coryphantha scheeri var. valida	Slender Needle Corycactus	PDCAC040C4						SR	G4T4	S3?
Cochise	PLANT	Coursetia glabella		PDFAB140B0	SC		S				G3?	S1
Cochise	PLANT	Draba standleyi	Standley Whitlow-grass	PDBRA112G0	SC						G2G3	S2S3
Cochise	PLANT	Echinocereus ledingii	Pinaleno Hedgehog Cactus	PDCAC06066						SR	G4G5T4	S4
Cochise	PLANT	Echinocereus pectinatus var. pectinatus	Texas Rainbow Cactus	PDCAC060A3						SR	G5T4	S4
Cochise	PLANT	Echinomastus erectocentrus var. erectocentrus	Needle-spined Pineapple Cactus	PDCAC0J0E2	SC		S			SR	G3T3Q	S3
Cochise	PLANT	Epithelantha micromeris	Button Cactus	PDCAC07020					PR	SR	G4	S1
Cochise	PLANT	Erigeron arisoli		PDAST3M510			S				G2	S2
Cochise	PLANT	Erigeron kuschei	Chiricahua Fleabane	PDAST3M240	SC		S			SR	G1	S1
Cochise	PLANT	Erigeron lemmonii	Lemmon Fleabane	PDAST3M2A0	C					HS	G1	S1
Cochise	PLANT	Eriogonum capillare	San Carlos Wild-buckwheat	PDPGN08100	SC					SR	G4	S4
Cochise	PLANT	Eriogonum terrenatum	San Pedro River Wild Buckwheat	PDPGN08760		S					G1	S1
Cochise	PLANT	Escobaria tuberculosa	Incense Corycactus	PDCAC0X0F0						SR	G4	S1

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Cochise	PLANT	Euphorbia macropus	Woodland Spurge	PDEUP0Q2U0	SC					SR	G4	S2
Cochise	PLANT	Gentianella wislizeni	Wislizeni Gentian	PDGEN07090	SC		S			SR	G2	S1
Cochise	PLANT	Graptopetalum bartramii	Bartram Stonecrop	PDCRA06010	SC	S	S			SR	G3	S3
Cochise	PLANT	Hedeoma costatum	Chiricahua Mock Pennyroyal	PDLAM0M0L0			S				G5	S1
Cochise	PLANT	Hedeoma dentatum	Mock-pennyroyal	PDLAM0M0M0			S				G3	S3
Cochise	PLANT	Heterotheca rutteri	Huachuca Golden Aster	PDAST4V0J0	SC	S	S				G2	S2
Cochise	PLANT	Heuchera glomerulata	Arizona Alum Root	PDSAX0E0F0			S				G3	S3
Cochise	PLANT	Hexalectris revoluta	Chisos Coral-root	PMORC1C030			S			SR	G1G2	S1
Cochise	PLANT	Hexalectris spicata	Crested Coral Root	PMORC1C040						SR	G5	S3S4
Cochise	PLANT	Hexalectris warnockii	Texas Purple Spike	PMORC1C050	SC	S	S			HS	G2G3	S1
Cochise	PLANT	Hieracium pringlei	Pringle Hawkweed	PDAST4W170	SC		S				G2Q	S1
Cochise	PLANT	Hieracium rusbyi	Rusby Hawkweed	PDAST4W1A0			S				G2?	S1
Cochise	PLANT	Ipomoea plummerae var. cuneifolia	Huachuca Morning Glory	PDCON0A141			S				G4T3	S3
Cochise	PLANT	Ipomoea thurberi	Thurber's Morning-glory	PDCON0A1K0			S				G3	S1
Cochise	PLANT	Laennecia eriophylla	Woolly Fleabane	PDASTDL020			S				G3	S2
Cochise	PLANT	Lilaeopsis schaffneriana var. recurva	Huachuca Water Umbel	PDAPI19051	LE					HS	G4T2	S2
Cochise	PLANT	Lilium parryi	Lemmon Lily	PMLIL1A0J0	SC		S			SR	G3	S2
Cochise	PLANT	Lobelia fenestralis	Leafy Lobelia	PDCAM0E0H0						SR	G4	S1
Cochise	PLANT	Lupinus huachucanus	Huachuca Mountain Lupine	PDFAB2B210			S				G2	S2
Cochise	PLANT	Lupinus lemmonii	Lemmon's Lupine	PDFAB2B2A0			S				G1G2Q	S1S2Q
Cochise	PLANT	Malaxis corymbosa	Madrean Adders Mouth	PMORC1R020						SR	G4	S3S4
Cochise	PLANT	Malaxis porphyrea	Purple Adder's Mouth	PMORC1R0Q0						SR	G4	S2
Cochise	PLANT	Malaxis tenuis	Slender Adders Mouth	PMORC1R090						SR	G4	S1
Cochise	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
Cochise	PLANT	Mammillaria wrightii var. wilcoxii	Wilcox Fishhook Cactus	PDCAC0A0E1						SR	G4T4	S4
Cochise	PLANT	Metastelma mexicanum	Wiggins Milkweed Vine	PDASC050P0	SC		S				G3G4	S1S2
Cochise	PLANT	Muhlenbergia dubioides	Box Canyon Muhly	PMPOA480G0			S				G1Q	S1
Cochise	PLANT	Pectis imberbis	Beardless Chinch Weed	PDAST6W0A0	SC		S				G3	S1
Cochise	PLANT	Pediomelum pentaphyllum	Three-nerved Scurf-pea	PDFAB5L070	SC		S				G1	S1

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Cochise	PLANT	Peniocereus greggii var. greggii	Night-blooming Cereus	PDCAC0V011	SC				PR	SR	G3G4T2	S1
Cochise	PLANT	Penstemon discolor	Catalina Beardtongue	PDSCR1L210			S			HS	G2	S2
Cochise	PLANT	Penstemon ramosus	Branching Penstemon	PDSCR1L7L0			S				G3G4Q	S1
Cochise	PLANT	Penstemon superbus	Superb Beardtongue	PDSCR1L630			S				G3?	S2?
Cochise	PLANT	Perityle cochisensis	Chiricahua Rock Daisy	PDAST70080			S			SR	G1G2	S1S2
Cochise	PLANT	Physalis latiphysa	Broad-leaf Ground-cherry	PDSOL0S0H0			S				G1	S1
Cochise	PLANT	Platanthera limosa	Thurber's Bog Orchid	PMORC1Y0G0						SR	G4	S4
Cochise	PLANT	Polemonium flavum	Pinaleno Jacobs Ladder	PDPLM0E0B2			S				G5T3?	S2
Cochise	PLANT	Polemonium pauciflorum ssp. hinckleyi	Hinckley's Ladder	PDPLM0E0G1	SC		S				G3G5T2Q	S1
Cochise	PLANT	Psilactis gentryi	Mexican Bare-ray-aster	PDASTE7010			S				G3	S1
Cochise	PLANT	Rumex orthoneurus	Blumer's Dock	PDPGN0P0Z0	SC		S			HS	G3	S3
Cochise	PLANT	Salvia amissa	Aravaipa Sage	PDLAM1S020	SC	S	S				G2	S2
Cochise	PLANT	Samolus vagans	Chiricahua Mountain Brookweed	PDPRI09040			S				G2?	S2
Cochise	PLANT	Schiedeella arizonica	Fallen Ladies'-tresses	PMORC67020						SR	GNR	S4
Cochise	PLANT	Senecio carlomasonii	Seemann Groundsel	PDAST8H3W0			S				G4?Q	S2S3
Cochise	PLANT	Senecio multidentatus var. huachucanus	Huachuca Groundsel	PDAST8H411			S			HS	G2G4T2	S2
Cochise	PLANT	Senecio neomexicanus var. toumeyi	Toumey Groundsel	PDAST8H274			S				G5T2Q	S2
Cochise	PLANT	Sisyrinchium cernuum	Nodding Blue-eyed Grass	PMIRI0D0B0			S				G5	S2
Cochise	PLANT	Spiranthes delitescens	Madrean Ladies'-tresses	PMORC2B140	LE					HS	G1	S1
Cochise	PLANT	Stellaria porsildii	Porsild's Starwort	PDCAR0X160			S				G1	S1
Cochise	PLANT	Stenorrhynchos michuacanum	Michoacan Ladies'-tresses	PMORC2B0L0						SR	G4	S3
Cochise	PLANT	Talinum marginatum	Tepic Flame Flower	PDPOR080N0	SC		S			SR	G2	S1
Cochise	PLANT	Tephrosia thurberi	Thurber Hoary Pea	PDFAB3X0M0			S				G4G5	S3
Cochise	PLANT	Tragia laciniata	Sonoran Noseburn	PDEUP1D060			S				G3G4	S3?
Cochise	PLANT	Vauquelinia californica ssp. pauciflora	Limestone Arizona Rosewood	PDROS1R022	SC					SR	G4T3	S1
Cochise	PLANT	Viola umbraticola	Shade Violet	PDVIO042E0			S				G3G4	S2?
Cochise	PLANT	Zigadenus virescens	Green Death Camas	PMLIL280E0						SR	G4	S4
Cochise	REPTILE	Aspidoscelis burti stictogrammus	Giant Spotted Whiptail	ARACJ02011	SC		S				G4T4	S2
Cochise	REPTILE	Crotalus willardi obscurus	New Mexico Ridge-nosed Rattlesnake	ARADE02131	LT		S		PR		G5T1T2	S1

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Cochise	REPTILE	Crotalus willardi willardi	Arizona Ridge-nosed Rattlesnake	ARADE02132			S		PR	WSC	G5T4	S1S2
Cochise	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Cochise	REPTILE	Phrynosoma cornutum	Texas Horned Lizard	ARACF12010	SC				A		G4G5	S3S4
Cochise	REPTILE	Sistrurus catenatus edwardsii	Desert Massasauga	ARADE03012			S		PR	WSC	G3G4T3T4 Q	S1
Cochise	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Coconino	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4
Coconino	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Coconino	AMPHIBIAN	Lithobates pipiens	Northern Leopard Frog	AAABH01170		S	S	2		WSC	G5	S2
Coconino	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Coconino	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Coconino	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Coconino	BIRD	Buteo regalis	Ferruginous Hawk	ABNKC19120	SC	S		3		WSC	G4	S2B,S4N
Coconino	BIRD	Buteo swainsoni	Swainson's Hawk	ABNKC19070		S					G5	S3
Coconino	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Coconino	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Coconino	BIRD	Euptilotis neoxenus	Eared Quetzal	ABNWA03010			S		A		G3	SAB,S1N
Coconino	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Coconino	BIRD	Haliaeetus leucocephalus	Bald Eagle	ABNKC10010	LT,DPS	S	S	2	P	WSC	G5	S2S3B,S4N
Coconino	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Coconino	BIRD	Megasceryle alcyon	Belted Kingfisher	ABNXD01020				4		WSC	G5	S2B,S5N
Coconino	BIRD	Pandion haliaetus	Osprey	ABNKC01010		S				WSC	G5	S2B,S4N
Coconino	BIRD	Pinicola enucleator	Pine Grosbeak	ABPBY03010						WSC	G5	S1
Coconino	BIRD	Plegadis chihi	White-faced Ibis	ABNGE02020	SC						G5	S?B,S2S3N
Coconino	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Coconino	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Coconino	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Coconino	FISH	Catostomus latipinnis	Flannelmouth Sucker	AFCJC02110	SC	S	S				G3G4	S2
Coconino	FISH	Catostomus sp. 3	Little Colorado Sucker	AFCJC02250	SC	S	S			WSC	G2	S2
Coconino	FISH	Gila cypha	Humpback Chub	AFCJB13080	LE			2		WSC	G1	S1

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Coconino	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Coconino	FISH	Lepidomeda vittata	Little Colorado Spinedace	AFCJB20040	LT		S			WSC	G1G2	S1S2
Coconino	FISH	Oncorhynchus apache	Apache Trout	AFCHA02102	LT		S			WSC	G3T3	S3
Coconino	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Coconino	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
Coconino	INVERTEBRATE	Anodonta californiensis	California Floater	IMBIV04020	SC		S				G3Q	S1
Coconino	INVERTEBRATE	Archeolarca cavicola	Grand Canyon Cave pseudoscorpion	ILARA38020	SC						G1G2	S?
Coconino	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Coconino	INVERTEBRATE	Discus shimekii	Striate Disc	IMGAS54120	SC						G5	S2?
Coconino	INVERTEBRATE	Metrichia nigritta	Page Spring Micro Caddisfly	IITRI97010	SC						G5	S1
Coconino	INVERTEBRATE	Oxyloma haydeni haydeni	Niobrara Ambersnail	IMGAS67152		S	S				G3?T1	S1
Coconino	INVERTEBRATE	Oxyloma haydeni kanabensis	Kanab Ambersnail	IMGAS67151	LE	S	S	4			G3T1Q	S1
Coconino	INVERTEBRATE	Stenopelmatus navajo	Navajo Jerusalem Cricket	IHORT26020	SC		S				G1G3	S1S3
Coconino	MAMMAL	Choeronycteris mexicana	Mexican Long-tongued Bat	AMACB02010	SC	S			A	WSC	G4	S3
Coconino	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Coconino	MAMMAL	Dipodomys microps leucotis	Houserock Valley Chisel-toothed Kangaroo Rat	AMAFD03024	SC	S		4		WSC	G5T2Q	S2
Coconino	MAMMAL	Euderma maculatum	Spotted Bat	AMACC07010	SC	S			PR	WSC	G4	S1S2
Coconino	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Coconino	MAMMAL	Idionycteris phyllotis	Allen's Big-eared Bat	AMACC09010	SC						G3G4	S2S3
Coconino	MAMMAL	Lasiurus blossevillii	Western Red Bat	AMACC05060		S				WSC	G5	S3
Coconino	MAMMAL	Microtus mexicanus hualpaiensis	Hualapai Mexican Vole	AMAFF11212	LE					WSC	G5T1Q	S1
Coconino	MAMMAL	Microtus mexicanus navaho	Navajo Mexican Vole	AMAFF11213	SC		S	4		WSC	G5T2Q	S1
Coconino	MAMMAL	Myotis ciliolabrum	Western Small-footed Myotis	AMACC01140	SC						G5	S3S4
Coconino	MAMMAL	Myotis evotis	Long-eared Myotis	AMACC01070	SC						G5	S3
Coconino	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3
Coconino	MAMMAL	Myotis thysanodes	Fringed Myotis	AMACC01090	SC						G4G5	S3S4
Coconino	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Coconino	MAMMAL	Myotis volans	Long-legged Myotis	AMACC01110	SC						G5	S3S4
Coconino	MAMMAL	Nyctinomops macrotis	Big Free-tailed Bat	AMACD04020	SC						G5	S3

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Coconino	MAMMAL	Perognathus amplus cineris	Wupatki Arizona Pocket Mouse	AMAFD01053	SC		S	4			G5T3Q	S2S3
Coconino	PLANT	Aconitum infectum	Arizona Monkshood	PDRAN01030			S				G1	S1
Coconino	PLANT	Allium bigelovii	Bigelow Onion	PMLIL02070						SR	G3	S2S3
Coconino	PLANT	Aquilegia desertorum	Mogollon Columbine	PDRAN05070						SR	G4	S4
Coconino	PLANT	Argemone arizonica	Roaring Springs Prickly-poppy	PDPAP03030	SC						G1	S1
Coconino	PLANT	Asclepias welshii	Welsh's Milkweed	PDASC02290	LT			3		HS	G1	S1
Coconino	PLANT	Astragalus ampullarius	Gumbo Milk-vetch	PDFAB0F0L0	SC		S				G2	S1
Coconino	PLANT	Astragalus beathii	Beath Milk-vetch	PDFAB0F160				4			G2	S2
Coconino	PLANT	Astragalus cremnophylax var. cremnophylax	Sentry Milk-vetch	PDFAB0F2H1	LE					HS	G1T1	S1
Coconino	PLANT	Astragalus cremnophylax var. hevronii	Marble Canyon Milk-vetch	PDFAB0F2H3		S	S	3			G1T1	S1
Coconino	PLANT	Astragalus cremnophylax var. myriorrhaphis	Cliff Milk-vetch	PDFAB0F2H2	SC	S	S			SR	G1T1	S1
Coconino	PLANT	Astragalus rusbyi	Rusby's Milk-vetch	PDFAB0F7Q0			S				G3	S3
Coconino	PLANT	Astragalus xiphoides	Gladiator Milk Vetch	PDFAB0F9T0	SC					SR	G3	S3
Coconino	PLANT	Botrychium crenulatum	Crenulate Moonwort	PPOPH010L0	SC		S				G3	S1
Coconino	PLANT	Calypso bulbosa	Western Fairy Slipper	PMORC0D010						SR	G5	S3
Coconino	PLANT	Camissonia exilis	Slender Evening-primrose	PDONA030J0	SC					SR	G1	S1
Coconino	PLANT	Camissonia specuicola ssp. hesperia	Grand Canyon Evening-primrose	PDONA031J1	SC						G2T1	S1
Coconino	PLANT	Carex specuicola	Navajo Sedge	PMCYP03CQ0	LT			3		HS	G2	S2
Coconino	PLANT	Castilleja kaibabensis	Kaibab Paintbrush	PDSCR0D1J0			S				G2	S2
Coconino	PLANT	Chrysothamnus molestus	Tusayan Rabbitbrush	PDAST2C060	SC		S				G3	S3
Coconino	PLANT	Cimicifuga arizonica	Arizona Bugbane	PDRAN07020	SC		S			HS	G2	S2
Coconino	PLANT	Cirsium parryi ssp. mogollonicum	Mogollon Thistle	PDAST2E261	SC		S			SR	G4T1	S1
Coconino	PLANT	Coryphantha missouriensis	Missouri Corycactus	PDCAC0X020						SR	G5	S3
Coconino	PLANT	Cymopterus megacephalus	Cameron Water-parsley	PDAPI0U0M0	SC		S				G3	S3
Coconino	PLANT	Echinocactus polycephalus var. polycephalus	Clustered Barrel Cactus	PDCAC05033						SR	G3G4T3T4	S2
Coconino	PLANT	Echinocactus polycephalus var. xeranthemoides	Grand Canyon Cottontop Cactus	PDCAC05032						SR	G3G4T1T3	S2S3
Coconino	PLANT	Erigeron saxatilis	Rock Fleabane	PDAST3M560			S				G3	S3
Coconino	PLANT	Eriogonum ericifolium var. ericifolium	Heathleaf Wild-buckwheat	PDPGN08231			S				G3T2	S2
Coconino	PLANT	Eriogonum ripleyi	Ripley Wild-buckwheat	PDPGN08520	SC		S			SR	G2	S2

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Coconino	PLANT	Errazurizia rotundata	Roundleaf Errazurizia	PDFAB1L010		S		3		SR	G2	S2
Coconino	PLANT	Ferocactus cylindraceus var. eastwoodiae	Golden Barrel Cactus	PDCAC08084						SR	G5T1	S1
Coconino	PLANT	Flaveria mcdougallii	Grand Canyon Flaveria	PDAST3V070						SR	G2	S2
Coconino	PLANT	Gentianopsis barbellata	Bearded Gentian	PDGEN08010			S				G3G4	S1
Coconino	PLANT	Hedeoma diffusum	Flagstaff Pennyroyal	PDLAM0M0N0			S			SR	G3	S3
Coconino	PLANT	Heuchera eastwoodiae	Eastwood Alum Root	PDSAX0E0B0			S				G3	S3
Coconino	PLANT	Lesquerella kaibabensis	Kaibab Bladderpod	PDBRA1N1R0	SC		S				G1G2	S1S2
Coconino	PLANT	Listera convallarioides	Broadleaf Twayblade	PMORC1N050						SR	G5	S1
Coconino	PLANT	Malaxis porphyrea	Purple Adder's Mouth	PMORC1R0Q0						SR	G4	S2
Coconino	PLANT	Opuntia basilaris var. aurea	Yellow Beavertail	PDCAC0D300						SR	G3	S3
Coconino	PLANT	Opuntia basilaris var. longiareolata	Grand Canyon Beavertail Cactus	PDCAC0D054						SR	G5T2Q	S2
Coconino	PLANT	Opuntia nicholii	Navajo Bridge Cactus	PDCAC0D0W0						SR	G4Q	S4
Coconino	PLANT	Pediocactus bradyi	Brady Pincushion Cactus	PDCAC0E010	LE			2		HS	G1	S1
Coconino	PLANT	Pediocactus paradigmeyi	Kaibab Pincushion Cactus	PDCAC0E040	SC	S	S			HS	G2	S2
Coconino	PLANT	Pediocactus peeblesianus var. fickeiseniae	Fickeisen Plains Cactus	PDCAC0E051	C		S	3		HS	G1G2T1T2	S1S2
Coconino	PLANT	Pediocactus sileri	Siler Pincushion Cactus	PDCAC0E060	LT	S				HS	G3	S3
Coconino	PLANT	Pediocactus simpsonii	Simpson Plains Cactus	PDCAC0E070						SR	G4	S1
Coconino	PLANT	Penstemon clutei	Sunset Crater Beardtongue	PDSCR1L1E0	SC		S			SR	G2	S2
Coconino	PLANT	Penstemon nudiflorus	Flagstaff Beardtongue	PDSCR1L4A0			S				G2G3	S2S3
Coconino	PLANT	Phacelia serrata	Cinder Phacelia	PDHYD0C4B0	SC						G3	S3
Coconino	PLANT	Phacelia welshii	Welsh Phacelia	PDHYD0C4U0	SC						G2	S2
Coconino	PLANT	Pinus aristata	Rocky Mountain Bristlecone Pine	PGPIN04020						SR	G3	S2
Coconino	PLANT	Platanthera zothecina	Alcove Bog-orchid	PMORC1Y130	SC			3			G2	S2
Coconino	PLANT	Polemonium flavum	Pinaleno Jacobs Ladder	PDPLM0E0B2			S				G5T3?	S2
Coconino	PLANT	Primula specuicola	Grand Canyon Primrose	PDPRI080H0				4		SR	G4Q	S2
Coconino	PLANT	Psoralea argophylla var. pubescens	Mohave Indigo Bush	PDFAB3C013		S		4			G5T2	S2
Coconino	PLANT	Psoralea argophylla var. whitingii	Whiting Indigo Bush	PDFAB3C092	SC						G3?T2	S1
Coconino	PLANT	Puccinellia parishii	Parish Alkali Grass	PMPOA530T0	SC			4		HS	G2G3	S2
Coconino	PLANT	Rosa stellata ssp. abyssa	Grand Canyon Rose	PDROS1J153	SC	S	S			SR	G4T2	S2

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Coconino	PLANT	Rumex orthoneurus	Blumer's Dock	PDPGN0P0Z0	SC		S			HS	G3	S3
Coconino	PLANT	Salvia pachyphylla ssp. eremopictus	Arizona Rose Sage	PDLAM1S2F1				4			G4T1	S1
Coconino	PLANT	Sclerocactus parviflorus ssp. intermedius	Intermediate Fishhook Cactus	PDCAC0J041						SR	G4T3?	S2
Coconino	PLANT	Sclerocactus parviflorus ssp. parviflorus	Smallflower Fishhook Cactus	PDCAC0J042						SR	G4T4?	S1
Coconino	PLANT	Sclerocactus sileri	House Rock Fishhook Cactus	PDCAC0J0T0		S				SR	G1	S1
Coconino	PLANT	Senecio franciscanus	San Francisco Peaks Groundsel	PDAST8H1C0	LT					HS	G1	S1
Coconino	PLANT	Silene rectiramea	Grand Canyon Catchfly	PDCAR0U1F0	SC						G1	S1
Coconino	PLANT	Talinum validulum	Tusayan Flame Flower	PDPOR080M0	SC					SR	G3	S3
Coconino	PLANT	Thelypteris puberula var. sonorensis	Aravaipa Wood Fern	PPTHE05192		S					G5T3	S2
Coconino	PLANT	Triteleia lemmoniae	Mazatzal Tritoleia	PMLIL210C0						SR	G3	S3
Coconino	PLANT	Yucca whipplei	Our Lords Candle	PMAGA0B0X0						SR	G4G5	S3S4
Coconino	PLANT	Zigadenus virescens	Green Death Camas	PMLIL280E0						SR	G4	S4
Coconino	REPTILE	Crotalus oreganus abyssus	Grand Canyon Rattlesnake	ARADE02121			S				G5T4	S4
Coconino	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Coconino	REPTILE	Thamnophis rufipunctatus	Narrow-headed Gartersnake	ARADB36110	SC	S	S			WSC	G3G4	S1
Gila	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4
Gila	AMPHIBIAN	Eleutherodactylus augusti cactorum	Western Barking Frog	AAABD04171		S	S			WSC	G5T5	S2
Gila	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Gila	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Gila	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Gila	BIRD	Buteo nitidus maxima	Northern Gray Hawk	ABNKC19011	SC	S	S		PR	WSC	G5T4Q	S3
Gila	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Gila	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Gila	BIRD	Dolichonyx oryzivorus	Bobolink	ABPBXA9010						WSC	G5	S1
Gila	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Gila	BIRD	Euptilotis neoxenus	Eared Quetzal	ABNWA03010			S		A		G3	SAB,S1N
Gila	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Gila	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Gila	BIRD	Haliaeetus leucocephalus pop. 3	Bald Eagle - Sonoran Desert area Population	ABNKC10014	LT	S	S	2	P	WSC	G5TNR	S2S3

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Gila	BIRD	Megaceryle alcyon	Belted Kingfisher	ABNXD01020				4		WSC	G5	S2B,S5N
Gila	BIRD	Pandion haliaetus	Osprey	ABNKC01010		S				WSC	G5	S2B,S4N
Gila	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				P	WSC	G5T3	S3
Gila	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Gila	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Gila	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Gila	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Gila	FISH	Gila intermedia	Gila Chub	AFCJB13160	LE		S		P	WSC	G2	S2
Gila	FISH	Gila nigra	Headwater Chub	AFCJB13180	C						G2Q	S2
Gila	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Gila	FISH	Poeciliopsis occidentalis occidentalis	Gila Topminnow	AFCNC05021	LE				A	WSC	G3T3	S1S2
Gila	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Gila	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
Gila	INVERTEBRATE	Agatharion arizonicus		IIDIP46010			S				G1	S?
Gila	INVERTEBRATE	Anodonta californiensis	California Floater	IMBIV04020	SC		S				G3Q	S1
Gila	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Gila	INVERTEBRATE	Pyrgulopsis simplex	Fossil Springsnail	IMGASJ0210	SC	S	S				G1G2	S1
Gila	INVERTEBRATE	Pyrgulopsis sola	Brown Springsnail	IMGASJ0220	SC	S	S				G1	S1
Gila	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Gila	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Gila	MAMMAL	Idionycteris phyllotis	Allen's Big-eared Bat	AMACC09010	SC						G3G4	S2S3
Gila	MAMMAL	Lasiurus blossevillii	Western Red Bat	AMACC05060		S				WSC	G5	S3
Gila	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Gila	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3
Gila	MAMMAL	Myotis thysanodes	Fringed Myotis	AMACC01090	SC						G4G5	S3S4
Gila	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Gila	MAMMAL	Myotis volans	Long-legged Myotis	AMACC01110	SC						G5	S3S4
Gila	MAMMAL	Myotis yumanensis	Yuma Myotis	AMACC01020	SC						G5	S3S4
Gila	MAMMAL	Nyctinomops macrotis	Big Free-tailed Bat	AMACD04020	SC						G5	S3

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Gila	PLANT	Abutilon parishii	Pima Indian Mallow	PDMAL020E0	SC	S	S			SR	G2	S2
Gila	PLANT	Agave arizonica	Arizona Agave	PMAGA01030	No status					HS	G1Q	SHYB
Gila	PLANT	Agave delamateri	Tonto Basin Agave	PMAGA010W0	SC		S			HS	G2	S2
Gila	PLANT	Agave murpheyi	Hohokam Agave	PMAGA010F0	SC	S	S			HS	G2	S2
Gila	PLANT	Agave toumeyana var. bella	Toumey Agave	PMAGA010R1						SR	G3T3	S3
Gila	PLANT	Arenaria aberrans	Mt. Dellenbaugh Sandwort	PDCAR04010			S				G2	S2
Gila	PLANT	Carex chihuahuensis	A Sedge	PMCYP032T0			S				G3G4	S2S3
Gila	PLANT	Cimicifuga arizonica	Arizona Bugbane	PDRAN07020	SC		S			HS	G2	S2
Gila	PLANT	Echinocereus triglochidiatus var. arizonicus	Arizona Hedgehog Cactus	PDCAC060K1	LE		S			HS	G5T2	S2
Gila	PLANT	Erigeron anchana	Mogollon Fleabane	PDAST3M580	SC		S				G2	S2
Gila	PLANT	Eriogonum capillare	San Carlos Wild-buckwheat	PDPGN08100	SC					SR	G4	S4
Gila	PLANT	Ferocactus cylindraceus var. cylindraceus	California Barrel Cactus	PDCAC08081					PR	SR	G5T4	S3
Gila	PLANT	Fremontodendron californicum	Flannel Bush	PDSTE03010		S				SR	G4	S2S3
Gila	PLANT	Heuchera eastwoodiae	Eastwood Alum Root	PDSAX0E0B0			S				G3	S3
Gila	PLANT	Heuchera glomerulata	Arizona Alum Root	PDSAX0E0F0			S				G3	S3
Gila	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
Gila	PLANT	Osmorhiza brachypoda	Sweet Cicely	PDAPI1K020			S				G4	S1
Gila	PLANT	Penstemon nudiflorus	Flagstaff Beardtongue	PDSCR1L4A0			S				G2G3	S2S3
Gila	PLANT	Penstemon superbus	Superb Beardtongue	PDSCR1L630			S				G3?	S2?
Gila	PLANT	Perityle gilensis var. salensis	Gila Rock Daisy	PDAST700D2			S				G2?T2?	S2?
Gila	PLANT	Perityle saxicola	Fish Creek Rock Daisy	PDAST700P0	SC		S				G1	S1
Gila	PLANT	Phlox amabilis	Arizona Phlox	PDPLM0D050			S				G2	S2
Gila	PLANT	Rumex orthoneurus	Blumer's Dock	PDPGN0P0Z0	SC		S			HS	G3	S3
Gila	PLANT	Salvia amissa	Aravaipa Sage	PDLAM1S020	SC	S	S				G2	S2
Gila	PLANT	Triteleia lemmoniae	Mazatzal Triteleia	PMLIL210C0						SR	G3	S3
Gila	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Gila	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Gila	REPTILE	Thamnophis rufipunctatus	Narrow-headed Gartersnake	ARADB36110	SC	S	S			WSC	G3G4	S1
Graham	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Graham	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Graham	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Graham	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Graham	BIRD	Amazilia violiceps	Violet-crowned Hummingbird	ABNUC29150						WSC	G5	S3
Graham	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Graham	BIRD	Buteo nitidus maxima	Northern Gray Hawk	ABNKC19011	SC	S	S		PR	WSC	G5T4Q	S3
Graham	BIRD	Buteo swainsoni	Swainson's Hawk	ABNKC19070		S					G5	S3
Graham	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Graham	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Graham	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Graham	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Graham	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Graham	BIRD	Haliaeetus leucocephalus pop. 3	Bald Eagle - Sonoran Desert area Population	ABNKC10014	LT	S	S	2	P	WSC	G5TNR	S2S3
Graham	BIRD	Megaceryle alcyon	Belted Kingfisher	ABNXD01020				4		WSC	G5	S2B,S5N
Graham	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Graham	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Graham	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Graham	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Graham	FISH	Cyprinodon macularius	Desert Pupfish	AFCNB02060	LE				P	WSC	G1	S1
Graham	FISH	Gila intermedia	Gila Chub	AFCJB13160	LE		S		P	WSC	G2	S2
Graham	FISH	Gila nigra	Headwater Chub	AFCJB13180	C						G2Q	S2
Graham	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Graham	FISH	Meda fulgida	Spikedace	AFCJB22010	LT		S			WSC	G2	S1
Graham	FISH	Oncorhynchus apache	Apache Trout	AFCHA02102	LT		S			WSC	G3T3	S3
Graham	FISH	Poeciliopsis occidentalis occidentalis	Gila Topminnow	AFCNC05021	LE				A	WSC	G3T3	S1S2
Graham	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Graham	FISH	Tiaroga cobitis	Loach Minnow	AFCJB37140	LT		S		P	WSC	G2	S1
Graham	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
Graham	INVERTEBRATE	Anodonta californiensis	California Floater	IMBIV04020	SC		S				G3Q	S1

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Graham	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Graham	INVERTEBRATE	Eumorsea pinaleno	Pinaleno Monkey Grasshopper	IHORT14010	SC		S				G1G3	S1S3
Graham	INVERTEBRATE	Limenitis archippus obsoleta	Obsolete Viceroy Butterfly	IILEPL3024			S				G5T3T4	S4
Graham	INVERTEBRATE	Oreohelix grahamensis	Pinaleno Mountainsnail	IMGASB5120			S				G2	S2
Graham	INVERTEBRATE	Pyrgulopsis arizonae	Bylas Springsnail	IMGASJ0770	SC	S	S				G1	S1
Graham	INVERTEBRATE	Sonorella christenseni	Clark Peak Talussnail	IMGASC9150	SC		S				G1	S1
Graham	INVERTEBRATE	Sonorella grahamensis	Pinaleno Talussnail	IMGASC9280	SC		S				G1	S1
Graham	INVERTEBRATE	Sonorella imitator	Mimic Talussnail	IMGASC9320			S				G2	S2
Graham	INVERTEBRATE	Sonorella macrophallus	Wet Canyon Talussnail	IMGASC9360	SC		S				G1	S1
Graham	INVERTEBRATE	Tryonia gilae	Gila Tryonia	IMGASJ7160	SC	S	S				G1	S1
Graham	MAMMAL	Choeronycteris mexicana	Mexican Long-tongued Bat	AMACB02010	SC	S			A	WSC	G4	S3
Graham	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Graham	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Graham	MAMMAL	Idionycteris phyllotis	Allen's Big-eared Bat	AMACC09010	SC						G3G4	S2S3
Graham	MAMMAL	Lasiurus blossevillii	Western Red Bat	AMACC05060		S				WSC	G5	S3
Graham	MAMMAL	Lasiurus xanthinus	Western Yellow Bat	AMACC05070		S				WSC	G5	S2S3
Graham	MAMMAL	Leptonycteris curasoae yerbabuena	Lesser Long-nosed Bat	AMACB03030	LE		S			WSC	G4	S2S3
Graham	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Graham	MAMMAL	Microtus longicaudus leucophaeus	White-bellied Long-tailed Vole	AMAFF11061			S				G5T3	S2
Graham	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Graham	MAMMAL	Myotis yumanensis	Yuma Myotis	AMACC01020	SC						G5	S3S4
Graham	MAMMAL	Nyctinomops macrotis	Big Free-tailed Bat	AMACD04020	SC						G5	S3
Graham	MAMMAL	Sigmodon ochrognathus	Yellow-nosed Cotton Rat	AMAFF07040	SC						G4G5	S4
Graham	MAMMAL	Tamiasciurus hudsonicus grahamensis	Mt Graham Red Squirrel	AMAFB08011	LE					WSC	G5T1	S1
Graham	MAMMAL	Thomomys bottae mearnsi	Mearns' Southern Pocket Gopher	AMAFB0102G	SC						G5T5	S5
Graham	PLANT	Abutilon parishii	Pima Indian Mallow	PDMAL020E0	SC	S	S			SR	G2	S2
Graham	PLANT	Allium bigelovii	Bigelow Onion	PMLIL02070						SR	G3	S2S3
Graham	PLANT	Carex chihuahuensis	A Sedge	PMCYP032T0			S				G3G4	S2S3
Graham	PLANT	Carex ultra	Arizona Giant Sedge	PMCYP03E50		S	S				G3?	S2

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Graham	PLANT	Echinocereus ledingii	Pinaleno Hedgehog Cactus	PDCAC06066						SR	G4G5T4	S4
Graham	PLANT	Erigeron heliographis	Pinalenos Fleabane	PDAST3M500	SC						G1	S1
Graham	PLANT	Erigeron piscaticus	Fish Creek Fleabane	PDAST3M4X0	SC	S	S			SR	G1	S1
Graham	PLANT	Eriogonum capillare	San Carlos Wild-buckwheat	PDPGN08100	SC					SR	G4	S4
Graham	PLANT	Eupatorium bigelovii	Bigelow Thoroughwort	PDAST3P080			S				G2?	S1
Graham	PLANT	Hackelia ursina	Chihuahuan Stickseed	PDBOR0G0R0			S				G3?	S2
Graham	PLANT	Heuchera glomerulata	Arizona Alum Root	PDSAX0E0F0			S				G3	S3
Graham	PLANT	Hieracium rusbyi	Rusby Hawkweed	PDAST4W1A0			S				G2?	S1
Graham	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
Graham	PLANT	Mammillaria wrightii var. wilcoxii	Wilcox Fishhook Cactus	PDCAC0A0E1						SR	G4T4	S4
Graham	PLANT	Penstemon discolor	Catalina Beardtongue	PDSCR1L210			S			HS	G2	S2
Graham	PLANT	Penstemon ramosus	Branching Penstemon	PDSCR1L7L0			S				G3G4Q	S1
Graham	PLANT	Penstemon superbus	Superb Beardtongue	PDSCR1L630			S				G3?	S2?
Graham	PLANT	Physalis latiphysa	Broad-leaf Ground-cherry	PDSOL0S0H0			S				G1	S1
Graham	PLANT	Platanthera hyperborea	Boreal Bog Orchid	PMORC1Y0B0						SR	G5	S3S4
Graham	PLANT	Platanthera purpurascens	Slender Bog Orchid	PMORC1Y0P0						SR	G5	S4
Graham	PLANT	Polemonium flavum	Pinaleno Jacobs Ladder	PDPLM0E0B2			S				G5T3?	S2
Graham	PLANT	Potentilla albiflora	White-flowered Cinquefoil	PDROS1B010			S				G1G2	S1S2
Graham	PLANT	Purshia subintegra	Arizona Cliff Rose	PDROS1E080	LE					HS	GNA	S1
Graham	PLANT	Rumex orthoneurus	Blumer's Dock	PDPGN0P0Z0	SC		S			HS	G3	S3
Graham	PLANT	Salvia amissa	Aravaipa Sage	PDLAM1S020	SC	S	S				G2	S2
Graham	PLANT	Schiedeella arizonica	Fallen Ladies'-tresses	PMORC67020						SR	GNR	S4
Graham	REPTILE	Aspidoscelis burti stictogrammus	Giant Spotted Whiptail	ARACJ02011	SC		S				G4T4	S2
Graham	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Graham	REPTILE	Phrynosoma cornutum	Texas Horned Lizard	ARACF12010	SC				A		G4G5	S3S4
Graham	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Graham	REPTILE	Thamnophis rufipunctatus	Narrow-headed Gartersnake	ARADB36110	SC	S	S			WSC	G3G4	S1
Greenlee	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4
Greenlee	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Greenlee	AMPHIBIAN	Lithobates pipiens	Northern Leopard Frog	AAABH01170		S	S	2		WSC	G5	S2
Greenlee	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Greenlee	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Greenlee	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Greenlee	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Greenlee	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Greenlee	BIRD	Euptilotis neoxenus	Eared Quetzal	ABNWA03010			S		A		G3	SAB,S1N
Greenlee	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Greenlee	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Greenlee	BIRD	Pandion haliaetus	Osprey	ABNKC01010		S				WSC	G5	S2B,S4N
Greenlee	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Greenlee	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Greenlee	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Greenlee	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Greenlee	FISH	Gila intermedia	Gila Chub	AFCJB13160	LE		S		P	WSC	G2	S2
Greenlee	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Greenlee	FISH	Meda fulgida	Spikedace	AFCJB22010	LT		S			WSC	G2	S1
Greenlee	FISH	Oncorhynchus apache	Apache Trout	AFCHA02102	LT		S			WSC	G3T3	S3
Greenlee	FISH	Oncorhynchus gilae	Gila Trout	AFCHA02100	LT		S			WSC	G3	S1
Greenlee	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Greenlee	FISH	Tiaroga cobitis	Loach Minnow	AFCJB37140	LT		S		P	WSC	G2	S1
Greenlee	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
Greenlee	INVERTEBRATE	Anodonta californiensis	California Floater	IMBIV04020	SC		S				G3Q	S1
Greenlee	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Greenlee	INVERTEBRATE	Psephenus montanus	White Mountains Water Penny Beetle	IICOL63020	SC		S				G2?	S2?
Greenlee	INVERTEBRATE	Speyeria nokomis nitocris	Mountain Silverspot Butterfly	IILEPJ6052			S				G3T3	S3
Greenlee	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Greenlee	MAMMAL	Myotis evotis	Long-eared Myotis	AMACC01070	SC						G5	S3
Greenlee	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Greenlee	MAMMAL	Myotis volans	Long-legged Myotis	AMACC01110	SC						G5	S3S4
Greenlee	MAMMAL	Zapus hudsonius luteus	New Mexican Jumping Mouse	AMAFH01014	C		S			WSC	G5T2	S1
Greenlee	PLANT	Allium bigelovii	Bigelow Onion	PMLIL02070						SR	G3	S2S3
Greenlee	PLANT	Allium gooddingii	Goodding Onion	PMLIL02120	SC		S	3		HS	G4	S3S4
Greenlee	PLANT	Calypso bulbosa	Western Fairy Slipper	PMORC0D010						SR	G5	S3
Greenlee	PLANT	Coeloglossum viride var. virescens	American Frog Orchid	PMORC0K011						SR	G5T5	S1
Greenlee	PLANT	Conioselinum mexicanum	Mexican Hemlock Parsley	PDAP10P030	SC		S				G2?	S1
Greenlee	PLANT	Cypripedium parviflorum var. pubescens	Yellow Lady's-slipper	PMORC0Q092				4		HS	G5T5	S1
Greenlee	PLANT	Echinocereus fasciculatus	Magenta-flower Hedgehog-cactus	PDCAC06065						SR	G4G5T4T5	S?
Greenlee	PLANT	Eriogonum capillare	San Carlos Wild-buckwheat	PDPGN08100	SC					SR	G4	S4
Greenlee	PLANT	Gentianella wislizeni	Wislizeni Gentian	PDGEN07090	SC		S			SR	G2	S1
Greenlee	PLANT	Goodyera repens	Lesser Rattlesnake Plantain	PMORC17030						SR	G5	S2
Greenlee	PLANT	Hackelia ursina	Chihuahuan Stickseed	PDBOR0G0R0			S				G3?	S2
Greenlee	PLANT	Heuchera glomerulata	Arizona Alum Root	PDSAX0E0F0			S				G3	S3
Greenlee	PLANT	Lupinus lemmonii	Lemmon's Lupine	PDFAB2B2A0			S				G1G2Q	S1S2Q
Greenlee	PLANT	Malaxis porphyrea	Purple Adder's Mouth	PMORC1R0Q0						SR	G4	S2
Greenlee	PLANT	Penstemon linarioides ssp. maguirei	Maguire's Penstemon	PDSCR1L3S1						SR	G5T1	S1
Greenlee	PLANT	Penstemon ramosus	Branching Penstemon	PDSCR1L7L0			S				G3G4Q	S1
Greenlee	PLANT	Penstemon superbus	Superb Beardtongue	PDSCR1L630			S				G3?	S2?
Greenlee	PLANT	Perityle ambrosiifolia	Lace-leaf Rockdaisy	PDAST70120		S					G1	S1
Greenlee	PLANT	Platanthera hyperborea	Boreal Bog Orchid	PMORC1Y0B0						SR	G5	S3S4
Greenlee	PLANT	Platanthera purpurascens	Slender Bog Orchid	PMORC1Y0P0						SR	G5	S4
Greenlee	PLANT	Rumex orthoneurus	Blumer's Dock	PDPGN0P0Z0	SC		S			HS	G3	S3
Greenlee	PLANT	Schiedeella arizonica	Fallen Ladies'-tresses	PMORC67020						SR	GNR	S4
Greenlee	PLANT	Senecio quaerens	Gila Groundsel	PDAST8H2L0	SC		S			SR	G2	S2
Greenlee	PLANT	Trifolium neurophyllum	White Mountains Clover	PDFAB401N0	SC		S				G2	S2
Greenlee	PLANT	Zigadenus virescens	Green Death Camas	PMLIL280E0						SR	G4	S4
Greenlee	REPTILE	Thamnophis rufipunctatus	Narrow-headed Gartersnake	ARADB36110	SC	S	S			WSC	G3G4	S1
La Paz	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
La Paz	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
La Paz	BIRD	Aechmophorus clarkii	Clark's Grebe	ABNCA04020		S		4		WSC	G5	S3
La Paz	BIRD	Ardea alba	Great Egret	ABNGA04040		S				WSC	G5	S1B,S4N
La Paz	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
La Paz	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
La Paz	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
La Paz	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
La Paz	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
La Paz	BIRD	Haliaeetus leucocephalus pop. 3	Bald Eagle - Sonoran Desert area Population	ABNKC10014	LT	S	S	2	P	WSC	G5TNR	S2S3
La Paz	BIRD	Ixobrychus exilis	Least Bittern	ABNGA02010		S			A	WSC	G5	S3
La Paz	BIRD	Laterallus jamaicensis coturniculus	California Black Rail	ABNME03041	SC	S	S		PR	WSC	G4T1	S1
La Paz	BIRD	Plegadis chihi	White-faced Ibis	ABNGE02020	SC						G5	S?B,S2S3N
La Paz	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				P	WSC	G5T3	S3
La Paz	FISH	Cyprinodon macularius	Desert Pupfish	AFCNB02060	LE				P	WSC	G1	S1
La Paz	FISH	Gila elegans	Bonytail	AFCJB13100	LE			1	P	WSC	G1	S1
La Paz	FISH	Poeciliopsis occidentalis occidentalis	Gila Topminnow	AFCNC05021	LE				A	WSC	G3T3	S1S2
La Paz	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
La Paz	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
La Paz	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
La Paz	MAMMAL	Lasiurus blossevillei	Western Red Bat	AMACC05060		S				WSC	G5	S3
La Paz	MAMMAL	Lasiurus xanthinus	Western Yellow Bat	AMACC05070		S				WSC	G5	S2S3
La Paz	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
La Paz	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
La Paz	MAMMAL	Myotis yumanensis	Yuma Myotis	AMACC01020	SC						G5	S3S4
La Paz	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
La Paz	PLANT	Opuntia echinocarpa	Straw-top Cholla	PDCAC0D2W0						SR	G5	S5
La Paz	PLANT	Pholisma arenarium	Scaly Sandplant	PDLNN02010		S				HS	G3	S2
La Paz	REPTILE	Charina trivirgata gracia	Desert Rosy Boa	ARADA01021	SC	S	S				G4G5T3	S3S4
La Paz	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
La Paz	REPTILE	Heloderma suspectum cinctum	Banded Gila Monster	ARACE01011	SC				A		G4T4	S4
La Paz	REPTILE	Uma scoparia	Mojave Fringe-toed Lizard	ARACF15030		S				WSC	G3G4	S1
Maricopa	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4
Maricopa	AMPHIBIAN	Gastrophryne olivacea	Great Plains Narrow-mouthed Toad	AAABE01020		S			PR	WSC	G5	S3
Maricopa	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Maricopa	AMPHIBIAN	Pternohyla fodiens	Lowland Burrowing Treefrog	AAABC06010		S				WSC	G4	S2
Maricopa	BIRD	Ardea alba	Great Egret	ABNGA04040		S				WSC	G5	S1B,S4N
Maricopa	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Maricopa	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Maricopa	BIRD	Charadrius alexandrinus nivosus	Western Snowy Plover	ABNNB03031	No Status		S			WSC	G4T3	S1
Maricopa	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Maricopa	BIRD	Dendrocygna autumnalis	Black-bellied Whistling-Duck	ABNJB01040						WSC	G5	S3
Maricopa	BIRD	Egretta thula	Snowy Egret	ABNGA06030		S				WSC	G5	S1B,S4N
Maricopa	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Maricopa	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Maricopa	BIRD	Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	ABNSB08041	SC	S			A	WSC	G5T3	S1
Maricopa	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Maricopa	BIRD	Haliaeetus leucocephalus pop. 3	Bald Eagle - Sonoran Desert area Population	ABNKC10014	LT	S	S	2	P	WSC	G5TNR	S2S3
Maricopa	BIRD	Ictinia mississippiensis	Mississippi Kite	ABNKC09010		S			A	WSC	G5	S3
Maricopa	BIRD	Ixobrychus exilis	Least Bittern	ABNGA02010		S			A	WSC	G5	S3
Maricopa	BIRD	Megaceryle alcyon	Belted Kingfisher	ABNXD01020				4		WSC	G5	S2B,S5N
Maricopa	BIRD	Pandion haliaetus	Osprey	ABNKC01010		S				WSC	G5	S2B,S4N
Maricopa	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				P	WSC	G5T3	S3
Maricopa	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Maricopa	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Maricopa	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Maricopa	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Maricopa	FISH	Catostomus sp. 3	Little Colorado Sucker	AFCJC02250	SC	S	S			WSC	G2	S2
Maricopa	FISH	Cyprinodon macularius	Desert Pupfish	AFCNB02060	LE				P	WSC	G1	S1

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Maricopa	FISH	Gila elegans	Bonytail	AFCJB13100	LE			1	P	WSC	G1	S1
Maricopa	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Maricopa	FISH	Poeciliopsis occidentalis occidentalis	Gila Topminnow	AFCNC05021	LE				A	WSC	G3T3	S1S2
Maricopa	FISH	Ptychocheilus lucius	Colorado Pikeminnow	AFCJB35020	LE,XN			2	P	WSC	G1	S1
Maricopa	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Maricopa	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
Maricopa	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Maricopa	INVERTEBRATE	Limenitis archippus obsoleta	Obsolete Viceroy Butterfly	IILEPL3024			S				G5T3T4	S4
Maricopa	INVERTEBRATE	Maricopella allynsmithi	Squaw Park Talussnail	IMGASC9010	SC		S				G1	S1
Maricopa	MAMMAL	Antilocapra americana sonoriensis	Sonoran Pronghorn	AMALD01012	LE		S		P	WSC	G5T1	S1
Maricopa	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Maricopa	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Maricopa	MAMMAL	Lasiurus blossevillii	Western Red Bat	AMACC05060		S				WSC	G5	S3
Maricopa	MAMMAL	Lasiurus xanthinus	Western Yellow Bat	AMACC05070		S				WSC	G5	S2S3
Maricopa	MAMMAL	Leptoncyteris curasoeae yerbabuena	Lesser Long-nosed Bat	AMACB03030	LE		S			WSC	G4	S2S3
Maricopa	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Maricopa	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Maricopa	MAMMAL	Myotis yumanensis	Yuma Myotis	AMACC01020	SC						G5	S3S4
Maricopa	PLANT	Abutilon parishii	Pima Indian Mallow	PDMAL020E0	SC	S	S			SR	G2	S2
Maricopa	PLANT	Acacia farnesiana	Sweet Acacia	PDFAB020D0			S				G5	S1S2
Maricopa	PLANT	Agave arizonica	Arizona Agave	PMAGA01030	No status					HS	G1Q	SHYB
Maricopa	PLANT	Agave delamateri	Tonto Basin Agave	PMAGA010W0	SC		S			HS	G2	S2
Maricopa	PLANT	Agave murpheyi	Hohokam Agave	PMAGA010F0	SC	S	S			HS	G2	S2
Maricopa	PLANT	Agave toumeyana var. bella	Toumey Agave	PMAGA010R1						SR	G3T3	S3
Maricopa	PLANT	Allium bigelovii	Bigelow Onion	PMLIL02070						SR	G3	S2S3
Maricopa	PLANT	Berberis harrisoniana	Kofa Mt Barberry	PDBER02030		S					G1G2	S1S2
Maricopa	PLANT	Echinomastus erectocentrus var. acunensis	Acuna Cactus	PDCAC0J0E1	C				P	HS	G3T1T2Q	S1
Maricopa	PLANT	Erigeron piscaticus	Fish Creek Fleabane	PDAST3M4X0	SC	S	S			SR	G1	S1
Maricopa	PLANT	Eriogonum ripleyi	Ripley Wild-buckwheat	PDPGN08520	SC		S			SR	G2	S2

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Maricopa	PLANT	Ferocactus cylindraceus var. cylindraceus	California Barrel Cactus	PDCAC08081					PR	SR	G5T4	S3
Maricopa	PLANT	Ferocactus cylindraceus var. eastwoodiae	Golden Barrel Cactus	PDCAC08084						SR	G5T1	S1
Maricopa	PLANT	Ferocactus emoryi	Emory's Barrel-cactus	PDCAC08090						SR	G4	S1S2
Maricopa	PLANT	Fremontodendron californicum	Flannel Bush	PDSTE03010		S				SR	G4	S2S3
Maricopa	PLANT	Heuchera eastwoodiae	Eastwood Alum Root	PDSAX0E0B0			S				G3	S3
Maricopa	PLANT	Lotus alamosanus	Alamos Deer Vetch	PDFAB2A020			S				G3G4	S1
Maricopa	PLANT	Mabrya acerifolia	Mapleleaf False Snapdragon	PDSCR2L010			S				G2	S2
Maricopa	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
Maricopa	PLANT	Opuntia echinocarpa	Straw-top Cholla	PDCAC0D2W0						SR	G5	S5
Maricopa	PLANT	Opuntia engelmannii var. flavispina		PDCAC0D224						SR	G5T3?	S3?
Maricopa	PLANT	Perityle saxicola	Fish Creek Rock Daisy	PDAST700P0	SC		S				G1	S1
Maricopa	PLANT	Purshia subintegra	Arizona Cliff Rose	PDROS1E080	LE					HS	GNA	S1
Maricopa	PLANT	Stenocereus thurberi	Organ Pipe Cactus	PDCAC10020						SR	G5	S4
Maricopa	PLANT	Tumamoca macdougalii	Tumamoc Globeberry	PDCUC0S010		S	S			SR	G4	S3
Maricopa	PLANT	Vauquelinia californica ssp. sonorensis	Arizona Sonoran Rosewood	PDROS1R024		S					G4T1	S1
Maricopa	REPTILE	Aspidoscelis xanthonota	Redback Whiptail	ARACJ02012	SC		S				G4T2	S2
Maricopa	REPTILE	Charina trivirgata gracia	Desert Rosy Boa	ARADA01021	SC	S	S				G4G5T3	S3S4
Maricopa	REPTILE	Charina trivirgata trivirgata	Mexican Rosy Boa	ARADA01023	SC	S					G4G5T3	S1S2
Maricopa	REPTILE	Chionactis occipitalis klauberi	Tucson Shovel-nosed Snake	ARADB05012		S					G5T3Q	S1
Maricopa	REPTILE	Eumeces gilberti arizonensis	Arizona Skink	ARACH01061	SC		S		PR	WSC	G5T1Q	S1
Maricopa	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Maricopa	REPTILE	Heloderma suspectum cinctum	Banded Gila Monster	ARACE01011	SC				A		G4T4	S4
Maricopa	REPTILE	Sauromalus ater (Arizona Population)	Arizona Chuckwalla	ARACF13013	SC	S			A		G5T4Q	S4
Maricopa	REPTILE	Sauromalus ater (Western Population)	Western Chuckwalla	ARACF13012	SC	S		4	A		G5T4Q	S4
Maricopa	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Mohave	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4
Mohave	AMPHIBIAN	Lithobates onca	Relict Leopard Frog	AAABH01150	C		S			WSC	G1	S1
Mohave	AMPHIBIAN	Lithobates pipiens	Northern Leopard Frog	AAABH01170		S	S	2		WSC	G5	S2
Mohave	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Mohave	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Mohave	BIRD	Aechmophorus clarkii	Clark's Grebe	ABNCA04020		S		4		WSC	G5	S3
Mohave	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Mohave	BIRD	Buteo regalis	Ferruginous Hawk	ABNKC19120	SC	S		3		WSC	G4	S2B,S4N
Mohave	BIRD	Buteo swainsoni	Swainson's Hawk	ABNKC19070		S					G5	S3
Mohave	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Mohave	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Mohave	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Mohave	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Mohave	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Mohave	BIRD	Haliaeetus leucocephalus pop. 3	Bald Eagle - Sonoran Desert area Population	ABNKC10014	LT	S	S	2	P	WSC	G5TNR	S2S3
Mohave	BIRD	Laterallus jamaicensis coturniculus	California Black Rail	ABNME03041	SC	S	S		PR	WSC	G4T1	S1
Mohave	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				P	WSC	G5T3	S3
Mohave	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Mohave	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Mohave	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Mohave	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Mohave	FISH	Catostomus latipinnis	Flannelmouth Sucker	AFCJC02110	SC	S	S				G3G4	S2
Mohave	FISH	Cyprinodon macularius	Desert Pupfish	AFCNB02060	LE				P	WSC	G1	S1
Mohave	FISH	Gila cypha	Humpback Chub	AFCJB13080	LE			2		WSC	G1	S1
Mohave	FISH	Gila elegans	Bonytail	AFCJB13100	LE			1	P	WSC	G1	S1
Mohave	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Mohave	FISH	Gila seminuda	Virgin River Chub	AFCJB13170	LE		S			WSC	G1	S1
Mohave	FISH	Lepidomeda mollispinis mollispinis	Virgin Spinedace	AFCJB20031	SC	S				WSC	G1G2T1	S1
Mohave	FISH	Plagopterus argentissimus	Woundfin	AFCJB33010	LE,XN					WSC	G1	S1
Mohave	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Mohave	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
Mohave	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Mohave	INVERTEBRATE	Pyrgulopsis bacchus	Grand Wash Springsnail	IMGASJ0150	SC	S	S				G1	S1

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Mohave	INVERTEBRATE	Pyrgulopsis conica	Kingman Springsnail	IMGASJ0160	SC	S	S				G1	S1
Mohave	INVERTEBRATE	Pyrgulopsis deserta	Desert Springsnail	IMGASJ0390		S	S				G2	S1
Mohave	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Mohave	MAMMAL	Euderma maculatum	Spotted Bat	AMACC07010	SC	S			PR	WSC	G4	S1S2
Mohave	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Mohave	MAMMAL	Idionycteris phyllotis	Allen's Big-eared Bat	AMACC09010	SC						G3G4	S2S3
Mohave	MAMMAL	Lasiurus blossevillei	Western Red Bat	AMACC05060		S				WSC	G5	S3
Mohave	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Mohave	MAMMAL	Microtus mexicanus hualpaiensis	Hualapai Mexican Vole	AMAFF11212	LE					WSC	G5T1Q	S1
Mohave	MAMMAL	Myotis ciliolabrum	Western Small-footed Myotis	AMACC01140	SC						G5	S3S4
Mohave	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3
Mohave	MAMMAL	Myotis thysanodes	Fringed Myotis	AMACC01090	SC						G4G5	S3S4
Mohave	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Mohave	MAMMAL	Myotis volans	Long-legged Myotis	AMACC01110	SC						G5	S3S4
Mohave	MAMMAL	Myotis yumanensis	Yuma Myotis	AMACC01020	SC						G5	S3S4
Mohave	MAMMAL	Nyctinomops macrotis	Big Free-tailed Bat	AMACD04020	SC						G5	S3
Mohave	PLANT	Allium bigelovii	Bigelow Onion	PMLIL02070						SR	G3	S2S3
Mohave	PLANT	Arctomecon californica	Las Vegas Bearpoppy	PDPAP02010	SC					SR	G3	S2
Mohave	PLANT	Astragalus ampullarius	Gumbo Milk-vetch	PDFAB0F0L0	SC		S				G2	S1
Mohave	PLANT	Astragalus geyeri var. triquetrus	Beaver Dam Milk-vetch	PDFAB0F3M2	SC	S					G4T2T3	S1
Mohave	PLANT	Astragalus holmgreniorum	Holmgren (Paradox) Milk-vetch	PDFAB0F9Z0	LE					HS	G1	S1
Mohave	PLANT	Astragalus lentiginosus var. ambiguus	Freckled Milk-vetch	PDFAB0FB91	SC						G5T1Q	S1
Mohave	PLANT	Astragalus newberryi var. aquarii	Aquarius Milkvetch	PDFAB0F5Y5		S					G5T1	S1
Mohave	PLANT	Astragalus toanus var. scidulus	Diamond Butte Milkvetch	PDFAB0F8Z1		S					G4G5T1T3	S1
Mohave	PLANT	Camissonia brevipes	Golden Suncup	PDONA03070	SC						G4G5	S1
Mohave	PLANT	Camissonia exilis	Slender Evening-primrose	PDONA030J0	SC					SR	G1	S1
Mohave	PLANT	Camissonia specuicola ssp. hesperia	Grand Canyon Evening-primrose	PDONA031J1	SC						G2T1	S1
Mohave	PLANT	Cirsium virginense	Virgin Thistle	PDAST2E3F0	SC					SR	G2	S1
Mohave	PLANT	Coryphantha missouriensis	Missouri Corycactus	PDCAC0X020						SR	G5	S3

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Mohave	PLANT	Cycladenia humilis var. jonesii	Jones' Cycladenia	PDAP009012	LT					HS	G3G4T2	S1
Mohave	PLANT	Echinocactus polycephalus var. polycephalus	Clustered Barrel Cactus	PDCAC05033						SR	G3G4T3T4	S2
Mohave	PLANT	Echinocactus polycephalus var. xeranthemoides	Grand Canyon Cottontop Cactus	PDCAC05032						SR	G3G4T1T3	S2S3
Mohave	PLANT	Enceliopsis argophylla	Silverleaf Sunray	PDAST3G010		S					G2G3	S2
Mohave	PLANT	Eriogonum mortonianum	Morton Wild-buckwheat	PDPGN083Z0	SC		S			SR	G1	S1
Mohave	PLANT	Eriogonum thompsoniae var. atwoodii	Atwood Wild-buckwheat	PDPGN085T2	SC		S			SR	G4T1	S1
Mohave	PLANT	Eriogonum viscidulum	Sticky Buckwheat	PDPGN08690	SC	S					G2	S1
Mohave	PLANT	Escobaria vivipara var. rosea	Viviparous Foxtail Cactus	PDCAC0X0G8						SR	G5T3	S3
Mohave	PLANT	Flaveria mcdougallii	Grand Canyon Flaveria	PDAST3V070						SR	G2	S2
Mohave	PLANT	Fremontodendron californicum	Flannel Bush	PDSTE03010		S				SR	G4	S2S3
Mohave	PLANT	Lupinus latifolius ssp. leucanthus	Broadleaf Lupine	PDFAB2B29D			S				G5T1T2	S1
Mohave	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
Mohave	PLANT	Mentzelia memorabilis	September 11 Stickleaf	PDLOA03290		S					G1	S1
Mohave	PLANT	Opuntia basilaris var. aurea	Yellow Beavertail	PDCAC0D300						SR	G3	S3
Mohave	PLANT	Opuntia basilaris var. longiareolata	Grand Canyon Beavertail Cactus	PDCAC0D054						SR	G5T2Q	S2
Mohave	PLANT	Opuntia echinocarpa	Straw-top Cholla	PDCAC0D2W0						SR	G5	S5
Mohave	PLANT	Opuntia nicholii	Navajo Bridge Cactus	PDCAC0D0W0						SR	G4Q	S4
Mohave	PLANT	Opuntia superbospina	Kingman's Prickly-pear	PDCAC0D1Q0						SR	GHQ	SH
Mohave	PLANT	Opuntia whipplei var. multigeniculata	Blue Diamond Cholla	PDCAC0D1N1	SC					SR	G4?T1Q	S1
Mohave	PLANT	Opuntia whipplei var. whipplei	Whipple Cholla	PDCAC0D1N3						SR	G4?T4?	S1
Mohave	PLANT	Pediocactus peeblesianus var. fickeiseniae	Fickeisen Plains Cactus	PDCAC0E051	C		S	3		HS	G1G2T1T2	S1S2
Mohave	PLANT	Pediocactus sileri	Siler Pincushion Cactus	PDCAC0E060	LT	S				HS	G3	S3
Mohave	PLANT	Pediomelum castoreum	Beaver Dam Scurf Pea	PDFAB5L050	SC						G3	S1
Mohave	PLANT	Pediomelum epipsilum	Kane Scurf-pea	PDFAB5L0F1	SC						G4?T1	S1
Mohave	PLANT	Penstemon albomarginatus	White-margined Penstemon	PDSCR1L070	SC	S				SR	G2	S2
Mohave	PLANT	Penstemon bicolor ssp. roseus	Cerbat Beardtongue	PDSCR1L0S2	SC	S				SR	G3?T3Q	S2
Mohave	PLANT	Penstemon distans	Mt. Trumbull Beardtongue	PDSCR1L6W0	SC	S	S			SR	G2	S2
Mohave	PLANT	Phacelia parishii	Parish's Phacelia	PDHYD0C3G0		S					G2G3	S1
Mohave	PLANT	Polygala rusbyi	Hualapai Milkwort	PDPGL021H0			S				G3	S3

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Mohave	PLANT	Psorothamnus arborescens var. pubescens	Mohave Indigo Bush	PDFAB3C013		S		4			G5T2	S2
Mohave	PLANT	Purshia subintegra	Arizona Cliff Rose	PDROS1E080	LE					HS	GNA	S1
Mohave	PLANT	Rosa stellata ssp. abyssa	Grand Canyon Rose	PDROS1J153	SC	S	S			SR	G4T2	S2
Mohave	PLANT	Salvia pachyphylla ssp. eremopictus	Arizona Rose Sage	PDLAM1S2F1				4			G4T1	S1
Mohave	PLANT	Sclerocactus parviflorus ssp. intermedius	Intermediate Fishhook Cactus	PDCAC0J041						SR	G4T3?	S2
Mohave	PLANT	Sphaeralcea gierischii	Gierisch Globemallow	PDMAL140T0	C						G1	S1
Mohave	PLANT	Thelypteris puberula var. sonorensis	Aravaipa Wood Fern	PPTHE05192		S					G5T3	S2
Mohave	PLANT	Yucca whipplei	Our Lords Candle	PMAGA0B0X0						SR	G4G5	S3S4
Mohave	REPTILE	Charina trivirgata gracia	Desert Rosy Boa	ARADA01021	SC	S	S				G4G5T3	S3S4
Mohave	REPTILE	Crotalus oreganus abyssus	Grand Canyon Rattlesnake	ARADE02121			S				G5T4	S4
Mohave	REPTILE	Gopherus agassizii (Mohave Population)	Mohave Desert Tortoise	ARAAF01012	LT				A	WSC	G4T3Q	S2
Mohave	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Mohave	REPTILE	Heloderma suspectum cinctum	Banded Gila Monster	ARACE01011	SC				A		G4T4	S4
Mohave	REPTILE	Lampropeltis pyromelana infralabialis	Utah Mountain Kingsnake	ARADB19041			S				G4G5T3	S1
Navajo	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4
Navajo	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Navajo	AMPHIBIAN	Lithobates pipiens	Northern Leopard Frog	AAABH01170		S	S	2		WSC	G5	S2
Navajo	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Navajo	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Navajo	BIRD	Buteo regalis	Ferruginous Hawk	ABNKC19120	SC	S		3		WSC	G4	S2B,S4N
Navajo	BIRD	Buteo swainsoni	Swainson's Hawk	ABNKC19070		S					G5	S3
Navajo	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Navajo	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Navajo	BIRD	Pandion haliaetus	Osprey	ABNKC01010		S				WSC	G5	S2B,S4N
Navajo	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Navajo	FISH	Catostomus sp. 3	Little Colorado Sucker	AFCJC02250	SC	S	S			WSC	G2	S2
Navajo	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Navajo	FISH	Lepidomeda vittata	Little Colorado Spinedace	AFCJB20040	LT		S			WSC	G1G2	S1S2
Navajo	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Navajo	INVERTEBRATE	Anodonta californiensis	California Floater	IMBIV04020	SC		S				G3Q	S1
Navajo	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Navajo	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Navajo	MAMMAL	Idionycteris phyllotis	Allen's Big-eared Bat	AMACC09010	SC						G3G4	S2S3
Navajo	MAMMAL	Microtus mexicanus navaho	Navajo Mexican Vole	AMAFF11213	SC		S	4		WSC	G5T2Q	S1
Navajo	MAMMAL	Myotis evotis	Long-eared Myotis	AMACC01070	SC						G5	S3
Navajo	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3
Navajo	MAMMAL	Myotis thysanodes	Fringed Myotis	AMACC01090	SC						G4G5	S3S4
Navajo	MAMMAL	Myotis volans	Long-legged Myotis	AMACC01110	SC						G5	S3S4
Navajo	MAMMAL	Panthera onca	Jaguar	AMAJH02010	LE		S		P	WSC	G3	S1
Navajo	MAMMAL	Perognathus flavus goodpasteri	Springerville Pocket Mouse	AMAFD01031	SC		S				G5T3	S2
Navajo	PLANT	Asclepias welshii	Welsh's Milkweed	PDASC02290	LT			3		HS	G1	S1
Navajo	PLANT	Astragalus xiphoides	Gladiator Milk Vetch	PDFAB0F9T0	SC					SR	G3	S3
Navajo	PLANT	Carex specuicola	Navajo Sedge	PMCYP03CQ0	LT			3		HS	G2	S2
Navajo	PLANT	Chrysothamnus molestus	Tusayan Rabbitbrush	PDAST2C060	SC		S				G3	S3
Navajo	PLANT	Errazurizia rotundata	Roundleaf Errazurizia	PDFAB1L010		S		3		SR	G2	S2
Navajo	PLANT	Pediocactus papyracanthus	Paper-spined Cactus	PDCAC0J0K0	SC					SR	G4	S2S3
Navajo	PLANT	Pediocactus peeblesianus var. peeblesianus	Peebles Navajo Cactus	PDCAC0E053	LE					HS	G1G2T1	S1
Navajo	PLANT	Penstemon nudiflorus	Flagstaff Beardtongue	PDSCR1L4A0			S				G2G3	S2S3
Navajo	PLANT	Platanthera zothecina	Alcove Bog-orchid	PMORC1Y130	SC			3			G2	S2
Navajo	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Navajo	REPTILE	Thamnophis rufipunctatus	Narrow-headed Gartersnake	ARADB36110	SC	S	S			WSC	G3G4	S1
Pima	AMPHIBIAN	Eleutherodactylus augusti cactorum	Western Barking Frog	AAABD04171		S	S			WSC	G5T5	S2
Pima	AMPHIBIAN	Gastrophryne olivacea	Great Plains Narrow-mouthed Toad	AAABE01020		S			PR	WSC	G5	S3
Pima	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Pima	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Pima	AMPHIBIAN	Pterohyla fodiens	Lowland Burrowing Treefrog	AAABC06010		S				WSC	G4	S2
Pima	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Pima	BIRD	Ammodramus bairdii	Baird's Sparrow	ABPBXA0010	SC	S				WSC	G4	S2N

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Pima	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Pima	BIRD	Buteo nitidus maxima	Northern Gray Hawk	ABNKC19011	SC	S	S		PR	WSC	G5T4Q	S3
Pima	BIRD	Buteo swainsoni	Swainson's Hawk	ABNKC19070		S					G5	S3
Pima	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Pima	BIRD	Caracara cheriway	Crested Caracara	ABNKD02020	No Status					WSC	G5	S1S2
Pima	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Pima	BIRD	Colinus virginianus ridgwayi	Masked Bobwhite	ABNLC21022	LE				P	WSC	G5T1	S1
Pima	BIRD	Dendrocygna autumnalis	Black-bellied Whistling-Duck	ABNJB01040						WSC	G5	S3
Pima	BIRD	Dendrocygna bicolor	Fulvous Whistling-Duck	ABNJB01010	SC						G5	SAN
Pima	BIRD	Empidonax fulvifrons pygmaeus	Northern Buff-breasted Flycatcher	ABPAE33141	SC					WSC	G5T5	S1
Pima	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Pima	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Pima	BIRD	Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	ABNSB08041	SC	S			A	WSC	G5T3	S1
Pima	BIRD	Pachyramphus aglaiae	Rose-throated Becard	ABPAE53070						WSC	G4G5	S1
Pima	BIRD	Pandion haliaetus	Osprey	ABNKC01010		S				WSC	G5	S2B,S4N
Pima	BIRD	Poliophtila nigriceps	Black-capped Gnatcatcher	ABPBJ08040						WSC	G5	S1
Pima	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				P	WSC	G5T3	S3
Pima	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Pima	BIRD	Trogon elegans	Elegant Trogon	ABNWA02070						WSC	G5	S3
Pima	BIRD	Tyrannus crassirostris	Thick-billed Kingbird	ABPAE52040		S				WSC	G5	S2
Pima	BIRD	Tyrannus melancholicus	Tropical Kingbird	ABPAE52010						WSC	G5	S3
Pima	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Pima	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Pima	FISH	Cyprinodon eremus	Quitobaquito Desert Pupfish	AFCNB02140	LE					WSC	G1	S1
Pima	FISH	Cyprinodon macularius	Desert Pupfish	AFCNB02060	LE				P	WSC	G1	S1
Pima	FISH	Gila intermedia	Gila Chub	AFCJB13160	LE		S		P	WSC	G2	S2
Pima	FISH	Poeciliopsis occidentalis occidentalis	Gila Topminnow	AFCNC05021	LE				A	WSC	G3T3	S1S2
Pima	INVERTEBRATE	Agathymus aryxna	Arizona Giant Skipper	IILEP87080			S				G4G5	S5
Pima	INVERTEBRATE	Agathymus polingi	Poling's Giant Skipper	IILEP87190			S				G4	S2

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Pima	INVERTEBRATE	Anthocharis cethura	Desert Orangetip	IILEPA6010			S				G4G5	S4
Pima	INVERTEBRATE	Argia sabino	Sabino Canyon Dancer	IIDO68100	SC		S				G1G2	S2
Pima	INVERTEBRATE	Calephelis arizonensis	Arizona Metalmark	IILEPH2073			S				G3G4	S2
Pima	INVERTEBRATE	Limenitis archippus obsoleta	Obsolete Viceroy Butterfly	IILEPL3024			S				G5T3T4	S4
Pima	INVERTEBRATE	Neophasia terlooii	Chiricahua Pine White	IILEP99020			S				G3G4	S4
Pima	INVERTEBRATE	Sonorella eremita	San Xavier Talussnail	IMGASC9240	SC						G1	S1
Pima	INVERTEBRATE	Sonorella papagorum	Black Mountain Talussnail	IMGASC9480			S				G1	S1
Pima	INVERTEBRATE	Tryonia quitobaquiae	Quitobaquito Tryonia	IMGASJ7130	SC		S				G1	S1
Pima	MAMMAL	Antilocapra americana sonoriensis	Sonoran Pronghorn	AMALD01012	LE		S		P	WSC	G5T1	S1
Pima	MAMMAL	Choeronycteris mexicana	Mexican Long-tongued Bat	AMACB02010	SC	S			A	WSC	G4	S3
Pima	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Pima	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Pima	MAMMAL	Eumops underwoodi	Underwood's Bonneted Bat	AMACD02020	SC						G4	S1
Pima	MAMMAL	Lasiurus blossevillei	Western Red Bat	AMACC05060		S				WSC	G5	S3
Pima	MAMMAL	Lasiurus xanthinus	Western Yellow Bat	AMACC05070		S				WSC	G5	S2S3
Pima	MAMMAL	Leptonycteris curasoae yerbabuenae	Lesser Long-nosed Bat	AMACB03030	LE		S			WSC	G4	S2S3
Pima	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Pima	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3
Pima	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Pima	MAMMAL	Nyctinomops macrotis	Big Free-tailed Bat	AMACD04020	SC						G5	S3
Pima	MAMMAL	Panthera onca	Jaguar	AMAJH02010	LE		S		P	WSC	G3	S1
Pima	MAMMAL	Sigmodon ochrognathus	Yellow-nosed Cotton Rat	AMAFF07040	SC						G4G5	S4
Pima	PLANT	Abutilon parishii	Pima Indian Mallow	PDMAL020E0	SC	S	S			SR	G2	S2
Pima	PLANT	Abutilon thurberi	Thurber Indian Mallow	PDMAL020P0						SR	G2?	S1
Pima	PLANT	Acacia farnesiana	Sweet Acacia	PDFAB020D0			S				G5	S1S2
Pima	PLANT	Agave parviflora ssp. parviflora	Santa Cruz Striped Agave	PMAGA010L2	SC		S		A	HS	G3T3	S3
Pima	PLANT	Agave schottii var. treleasei	Trelease Agave	PMAGA010N2	SC		S			HS	G5T1Q	S1
Pima	PLANT	Allium gooddingii	Goodding Onion	PMLIL02120	SC		S	3		HS	G4	S3S4
Pima	PLANT	Allium plummerae	Plummer Onion	PMLIL021V0						SR	G4	S3

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Pima	PLANT	Amoreuxia gonzalezii	Saiya	PDBIX01010	SC		S			HS	G1	S1
Pima	PLANT	Amsonia grandiflora	Large-flowered Blue Star	PDAP003060	SC		S				G2	S2
Pima	PLANT	Amsonia kearneyana	Kearney's Blue Star	PDAP0030M0	LE					HS	G1	S1
Pima	PLANT	Arabis tricornuta	Chiricahua Rock Cress	PDBRA06200			S				G1?	S1?
Pima	PLANT	Asclepias lemmonii	Lemmon Milkweed	PDASC020Z0			S				G4?	S2
Pima	PLANT	Asplenium dalhousiae	Dalhousie Spleenwort	PPASP020A0		S					GNR	S1
Pima	PLANT	Berberis harrisoniana	Kofa Mt Barberry	PDBER02030		S					G1G2	S1S2
Pima	PLANT	Boerhavia megaptera	Tucson Mountain Spiderling	PDNYC06090			S				G3	S3
Pima	PLANT	Capsicum annuum var. glabriusculum	Chiltepin	PDSOL06012			S				G5T5	S2
Pima	PLANT	Carex chihuahuensis	A Sedge	PMCYP032T0			S				G3G4	S2S3
Pima	PLANT	Carex ultra	Arizona Giant Sedge	PMCYP03E50		S	S				G3?	S2
Pima	PLANT	Coryphantha scheeri var. robustispina	Pima Pineapple Cactus	PDCAC040C1	LE					HS	G4T2	S2
Pima	PLANT	Dalea tentaculoides	Gentry Indigo Bush	PDFAB1A1K0	SC	S	S			HS	G1	S1
Pima	PLANT	Desmanthus covillei	Coville Bundleflower	PDFAB1C030			S				G3G4	S1
Pima	PLANT	Echinocactus horizonthalonius var. nicholii	Nichol Turk's Head Cactus	PDCAC05022	LE					HS	G4T2	S2
Pima	PLANT	Echinocereus fasciculatus	Magenta-flower Hedgehog-cactus	PDCAC06065						SR	G4G5T4T5	S?
Pima	PLANT	Echinomastus erectocentrus var. acunensis	Acuna Cactus	PDCAC0J0E1	C				P	HS	G3T1T2Q	S1
Pima	PLANT	Echinomastus erectocentrus var. erectocentrus	Needle-spined Pineapple Cactus	PDCAC0J0E2	SC		S			SR	G3T3Q	S3
Pima	PLANT	Erigeron arisoli		PDAST3M510			S				G2	S2
Pima	PLANT	Eriogonum capillare	San Carlos Wild-buckwheat	PDPGN08100	SC					SR	G4	S4
Pima	PLANT	Eriogonum ericifolium var. ericifolium	Heathleaf Wild-buckwheat	PDPGN08231			S				G3T2	S2
Pima	PLANT	Eriogonum terrenatum	San Pedro River Wild Buckwheat	PDPGN08760		S					G1	S1
Pima	PLANT	Euphorbia gracillima	Mexican Broomspurge	PDEUP0D110			S				G4?	S3
Pima	PLANT	Ferocactus cylindraceus var. eastwoodiae	Golden Barrel Cactus	PDCAC08084						SR	G5T1	S1
Pima	PLANT	Ferocactus emoryi	Emory's Barrel-cactus	PDCAC08090						SR	G4	S1S2
Pima	PLANT	Graptopetalum bartramii	Bartram Stonecrop	PDCRA06010	SC	S	S			SR	G3	S3
Pima	PLANT	Hackelia ursina	Chihuahuan Stickseed	PDBOR0G0R0			S				G3?	S2
Pima	PLANT	Hedeoma dentatum	Mock-pennyroyal	PDLAM0M0M0			S				G3	S3
Pima	PLANT	Hermannia pauciflora	Sparseleaf Hermannia	PDSTE06010			S				G2?	S1

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Pima	PLANT	Heterotheca rutteri	Huachuca Golden Aster	PDAST4V0J0	SC	S	S				G2	S2
Pima	PLANT	Hexalectris revoluta	Chisos Coral-root	PMORC1C030			S			SR	G1G2	S1
Pima	PLANT	Hexalectris spicata	Crested Coral Root	PMORC1C040						SR	G5	S3S4
Pima	PLANT	Hieracium pringlei	Pringle Hawkweed	PDAST4W170	SC		S				G2Q	S1
Pima	PLANT	Lilaeopsis schaffneriana var. recurva	Huachuca Water Umbel	PDAP19051	LE					HS	G4T2	S2
Pima	PLANT	Lilium parryi	Lemmon Lily	PMLIL1A0J0	SC		S			SR	G3	S2
Pima	PLANT	Listera convallarioides	Broadleaf Twayblade	PMORC1N050						SR	G5	S1
Pima	PLANT	Lophocereus schottii	Senita	PDCAC14010						SR	G4	S2
Pima	PLANT	Lupinus huachucanus	Huachuca Mountain Lupine	PDFAB2B210			S				G2	S2
Pima	PLANT	Lysiloma watsonii	Littleleaf False Tamarind	PDFAB2C040						SR	G4?	S1
Pima	PLANT	Malaxis tenuis	Slender Adders Mouth	PMORC1R090						SR	G4	S1
Pima	PLANT	Mammillaria mainiae	Counter Clockwise Fishhook Cactus	PDCAC0A060			S			SR	G3	S1
Pima	PLANT	Mammillaria thornberi	Thornber Fishhook Cactus	PDCAC0A0C0						SR	G4	S4
Pima	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
Pima	PLANT	Manihot davisiae	Arizona Manihot	PDEUP0Z010			S				G4	S2
Pima	PLANT	Matelea cordifolia	Sonoran Milkweed Vine	PDASC0A080			S				G4	S1
Pima	PLANT	Metastelma mexicanum	Wiggins Milkweed Vine	PDASC050P0	SC		S				G3G4	S1S2
Pima	PLANT	Muhlenbergia dubioides	Box Canyon Muhly	PMPOA480G0			S				G1Q	S1
Pima	PLANT	Muhlenbergia xerophila	Weeping Muhly	PMPOA48220			S				G3	S1
Pima	PLANT	Notholaena lemmonii	Lemmon Cloak Fern	PPADI0G0D0	SC						G3?	S1S2
Pima	PLANT	Opuntia engelmannii var. flavispina		PDCAC0D224						SR	G5T3?	S3?
Pima	PLANT	Opuntia versicolor	Stag-horn Cholla	PDCAC0D1K0						SR	G4	S2S3
Pima	PLANT	Opuntia x kelvinensis	Kelvin Cholla	PDCAC0D2M0						SR	GNA	SHYB
Pima	PLANT	Passiflora arizonica	Arizona Passionflower	PDPAS01073			S				G5T3T5	S2
Pima	PLANT	Pectis imberbis	Beardless Chinch Weed	PDAST6W0A0	SC		S				G3	S1
Pima	PLANT	Peniocereus greggii var. transmontanus	Desert Night-blooming Cereus	PDCAC0V012					PR	SR	G3G4T3T4	S3S4
Pima	PLANT	Peniocereus striatus	Dahlia Rooted Cereus	PDCAC0V020						SR	G4	S1
Pima	PLANT	Penstemon discolor	Catalina Beardtongue	PDSCR1L210			S			HS	G2	S2
Pima	PLANT	Penstemon superbus	Superb Beardtongue	PDSCR1L630			S				G3?	S2?

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Pima	PLANT	Perityle ajoensis	Ajo Rock Daisy	PDAST700Y0						SR	G1	S1
Pima	PLANT	Physalis latiphysa	Broad-leaf Ground-cherry	PDSOL0S0H0			S				G1	S1
Pima	PLANT	Platanthera limosa	Thurber's Bog Orchid	PMORC1Y0G0						SR	G4	S4
Pima	PLANT	Psilotum nudum	Whisk Fern	PPPSI01020						HS	G5	S1
Pima	PLANT	Samolus vagans	Chiricahua Mountain Brookweed	PDPRI09040			S				G2?	S2
Pima	PLANT	Schiedeella arizonica	Fallen Ladies'-tresses	PMORC67020						SR	GNR	S4
Pima	PLANT	Senecio carlomasonii	Seemann Groundsel	PDAST8H3W0			S				G4?Q	S2S3
Pima	PLANT	Senecio neomexicanus var. toumeyi	Toumey Groundsel	PDAST8H274			S				G5T2Q	S2
Pima	PLANT	Sisyrinchium cernuum	Nodding Blue-eyed Grass	PMIRI0D0B0			S				G5	S2
Pima	PLANT	Solanum lumholtzianum	Lumholtz Nightshade	PDSOL0Z180			S				G3G4	S3
Pima	PLANT	Stenocereus thurberi	Organ Pipe Cactus	PDCAC10020						SR	G5	S4
Pima	PLANT	Stevia lemmonii	Lemmon's Stevia	PDAST8V010			S				G3G4	S2
Pima	PLANT	Tephrosia thurberi	Thurber Hoary Pea	PDFAB3X0M0			S				G4G5	S3
Pima	PLANT	Thelypteris puberula var. sonorensis	Aravaipa Wood Fern	PPTHE05192		S					G5T3	S2
Pima	PLANT	Tragia laciniata	Sonoran Noseburn	PDEUP1D060			S				G3G4	S3?
Pima	PLANT	Triteleopsis palmeri	Blue Sand Lily	PMLIL22010		S				SR	G3	S1
Pima	PLANT	Tumamoca maccougali	Tumamoc Globeberry	PDCUC0S010		S	S			SR	G4	S3
Pima	PLANT	Vauquelinia californica ssp. sonorensis	Arizona Sonoran Rosewood	PDROS1R024		S					G4T1	S1
Pima	PLANT	Viola umbraticola	Shade Violet	PDVIO042E0			S				G3G4	S2?
Pima	REPTILE	Aspidoscelis burti stictogrammus	Giant Spotted Whiptail	ARACJ02011	SC		S				G4T4	S2
Pima	REPTILE	Aspidoscelis xanthonota	Redback Whiptail	ARACJ02012	SC		S				G4T2	S2
Pima	REPTILE	Charina trivirgata trivirgata	Mexican Rosy Boa	ARADA01023	SC	S					G4G5T3	S1S2
Pima	REPTILE	Chionactis occipitalis klauberi	Tucson Shovel-nosed Snake	ARADB05012		S					G5T3Q	S1
Pima	REPTILE	Chionactis palarostris organica	Organ Pipe Shovel-nosed Snake	ARADB05021			S				G3G4T2	S1
Pima	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Pima	REPTILE	Kinosternon sonoriense longifemorale	Sonoyta Mud Turtle	ARAAE01041	C		S				G4T1	S1
Pima	REPTILE	Lampropeltis getula nigrita	Western Black Kingsnake	ARADB19026			S		A		G5T3T4Q	S3
Pima	REPTILE	Oxybelis aeneus	Brown Vinesnake	ARADB24010						WSC	G5	S1
Pima	REPTILE	Phrynosoma cornutum	Texas Horned Lizard	ARACF12010	SC				A		G4G5	S3S4

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Pima	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Pima	REPTILE	Uma rufopunctata	Yuman Desert Fringe-toed Lizard	ARACF15040	SC	S	S		A	WSC	G3	S2
Pinal	AMPHIBIAN	Gastrophryne olivacea	Great Plains Narrow-mouthed Toad	AAABE01020		S			PR	WSC	G5	S3
Pinal	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Pinal	BIRD	Ardea alba	Great Egret	ABNGA04040		S				WSC	G5	S1B,S4N
Pinal	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Pinal	BIRD	Buteo nitidus maxima	Northern Gray Hawk	ABNKC19011	SC	S	S		PR	WSC	G5T4Q	S3
Pinal	BIRD	Buteo swainsoni	Swainson's Hawk	ABNKC19070		S					G5	S3
Pinal	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Pinal	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Pinal	BIRD	Dendrocygna autumnalis	Black-bellied Whistling-Duck	ABNJB01040						WSC	G5	S3
Pinal	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Pinal	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Pinal	BIRD	Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	ABNSB08041	SC	S			A	WSC	G5T3	S1
Pinal	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Pinal	BIRD	Haliaeetus leucocephalus pop. 3	Bald Eagle - Sonoran Desert area Population	ABNKC10014	LT	S	S	2	P	WSC	G5TNR	S2S3
Pinal	BIRD	Ictinia mississippiensis	Mississippi Kite	ABNKC09010		S			A	WSC	G5	S3
Pinal	BIRD	Ixobrychus exilis	Least Bittern	ABNGA02010		S			A	WSC	G5	S3
Pinal	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				P	WSC	G5T3	S3
Pinal	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Pinal	BIRD	Tyrannus crassirostris	Thick-billed Kingbird	ABPAE52040		S				WSC	G5	S2
Pinal	BIRD	Tyrannus melancholicus	Tropical Kingbird	ABPAE52010						WSC	G5	S3
Pinal	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Pinal	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Pinal	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Pinal	FISH	Cyprinodon macularius	Desert Pupfish	AFCNB02060	LE				P	WSC	G1	S1
Pinal	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Pinal	FISH	Meda fulgida	Spikedace	AFCJB22010	LT		S			WSC	G2	S1
Pinal	FISH	Poeciliopsis occidentalis occidentalis	Gila Topminnow	AFCNC05021	LE				A	WSC	G3T3	S1S2

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Pinal	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Pinal	FISH	Tiaroga cobitis	Loach Minnow	AFCJB37140	LT		S		P	WSC	G2	S1
Pinal	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Pinal	MAMMAL	Choeronycteris mexicana	Mexican Long-tongued Bat	AMACB02010	SC	S			A	WSC	G4	S3
Pinal	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Pinal	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Pinal	MAMMAL	Lasiurus blossevillei	Western Red Bat	AMACC05060		S				WSC	G5	S3
Pinal	MAMMAL	Lasiurus xanthinus	Western Yellow Bat	AMACC05070		S				WSC	G5	S2S3
Pinal	MAMMAL	Leptonycteris curasoae yerbabuenae	Lesser Long-nosed Bat	AMACB03030	LE		S			WSC	G4	S2S3
Pinal	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Pinal	MAMMAL	Myotis ciliolabrum	Western Small-footed Myotis	AMACC01140	SC						G5	S3S4
Pinal	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Pinal	MAMMAL	Myotis yumanensis	Yuma Myotis	AMACC01020	SC						G5	S3S4
Pinal	PLANT	Abutilon parishii	Pima Indian Mallow	PDMAL020E0	SC	S	S			SR	G2	S2
Pinal	PLANT	Agave murpheyi	Hohokam Agave	PMAGA010F0	SC	S	S			HS	G2	S2
Pinal	PLANT	Agave toumeyana var. bella	Toumey Agave	PMAGA010R1						SR	G3T3	S3
Pinal	PLANT	Carex ultra	Arizona Giant Sedge	PMCYP03E50		S	S				G3?	S2
Pinal	PLANT	Echinocactus horzonthalonius var. nicholii	Nichol Turk's Head Cactus	PDCAC05022	LE					HS	G4T2	S2
Pinal	PLANT	Echinocereus triglochidiatus var. arizonicus	Arizona Hedgehog Cactus	PDCAC060K1	LE		S			HS	G5T2	S2
Pinal	PLANT	Echinomastus erectocentrus var. acunensis	Acuna Cactus	PDCAC0J0E1	C				P	HS	G3T1T2Q	S1
Pinal	PLANT	Echinomastus erectocentrus var. erectocentrus	Needle-spined Pineapple Cactus	PDCAC0J0E2	SC		S			SR	G3T3Q	S3
Pinal	PLANT	Erigeron anchana	Mogollon Fleabane	PDAST3M580	SC		S				G2	S2
Pinal	PLANT	Eriogonum capillare	San Carlos Wild-buckwheat	PDPGN08100	SC					SR	G4	S4
Pinal	PLANT	Euphorbia gracillima	Mexican Broomspurge	PDEUP0D110			S				G4?	S3
Pinal	PLANT	Ferocactus cylindraceus var. eastwoodiae	Golden Barrel Cactus	PDCAC08084						SR	G5T1	S1
Pinal	PLANT	Fremontodendron californicum	Flannel Bush	PDSTE03010		S				SR	G4	S2S3
Pinal	PLANT	Hedeoma dentatum	Mock-pennyroyal	PDLAM0M0M0			S				G3	S3
Pinal	PLANT	Lilaeopsis schaffneriana var. recurva	Huachuca Water Umbel	PDAP19051	LE					HS	G4T2	S2
Pinal	PLANT	Lotus alamosanus	Alamos Deer Vetch	PDFAB2A020			S				G3G4	S1

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Pinal	PLANT	Mabrya acerifolia	Mapleleaf False Snapdragon	PDSCR2L010			S				G2	S2
Pinal	PLANT	Mammillaria thornberi	Thornber Fishhook Cactus	PDCAC0A0C0						SR	G4	S4
Pinal	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
Pinal	PLANT	Opuntia versicolor	Stag-horn Cholla	PDCAC0D1K0						SR	G4	S2S3
Pinal	PLANT	Penstemon discolor	Catalina Beardtongue	PDSCR1L210			S			HS	G2	S2
Pinal	PLANT	Perityle gilensis var. gilensis	Gila Rock Daisy	PDAST700D1			S				G2?T2?	S2?
Pinal	PLANT	Salvia amissa	Aravaipa Sage	PDLAM1S020	SC	S	S				G2	S2
Pinal	PLANT	Stenocereus thurberi	Organ Pipe Cactus	PDCAC10020						SR	G5	S4
Pinal	PLANT	Thelypteris puberula var. sonorensis	Aravaipa Wood Fern	PPTHE05192		S					G5T3	S2
Pinal	PLANT	Tumamoca maccougali	Tumamoc Globeberry	PDCUC0S010		S	S			SR	G4	S3
Pinal	REPTILE	Aspidoscelis burti stictogrammus	Giant Spotted Whiptail	ARACJ02011	SC		S				G4T4	S2
Pinal	REPTILE	Aspidoscelis xanthonota	Redback Whiptail	ARACJ02012	SC		S				G4T2	S2
Pinal	REPTILE	Chionactis occipitalis klauberi	Tucson Shovel-nosed Snake	ARADB05012		S					G5T3Q	S1
Pinal	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Pinal	REPTILE	Lampropeltis getula nigrita	Western Black Kingsnake	ARADB19026			S		A		G5T3T4Q	S3
Santa Cruz	AMPHIBIAN	Ambystoma tigrinum stebbinsi	Sonora Tiger Salamander	AAAAA01145	LE				PR	WSC	G5T1T2	S1
Santa Cruz	AMPHIBIAN	Eleutherodactylus augusti cactorum	Western Barking Frog	AAABD04171		S	S			WSC	G5T5	S2
Santa Cruz	AMPHIBIAN	Gastrophryne olivacea	Great Plains Narrow-mouthed Toad	AAABE01020		S			PR	WSC	G5	S3
Santa Cruz	AMPHIBIAN	Hyla wrightorum (Huachucas/Canelo Hills Pop.)	Huachucas/Canelo Hills Treefrog	AAABC02082	C,DPS						G4T2	S1
Santa Cruz	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Santa Cruz	AMPHIBIAN	Lithobates tarahumarae	Tarahumara Frog	AAABH01210	SC					WSC	G3	SXS1
Santa Cruz	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Santa Cruz	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Santa Cruz	BIRD	Amazilia violiceps	Violet-crowned Hummingbird	ABNUC29150						WSC	G5	S3
Santa Cruz	BIRD	Ammodramus bairdii	Baird's Sparrow	ABPBXA0010	SC	S				WSC	G4	S2N
Santa Cruz	BIRD	Anthus spragueii	Sprague's Pipit	ABPBM02060						WSC	G4	S2N
Santa Cruz	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Santa Cruz	BIRD	Buteo nitidus maxima	Northern Gray Hawk	ABNKC19011	SC	S	S		PR	WSC	G5T4Q	S3
Santa Cruz	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Santa Cruz	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Santa Cruz	BIRD	Dendrocygna autumnalis	Black-bellied Whistling-Duck	ABNJB01040						WSC	G5	S3
Santa Cruz	BIRD	Empidonax fulvifrons pygmaeus	Northern Buff-breasted Flycatcher	ABPAE33141	SC					WSC	G5T5	S1
Santa Cruz	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Santa Cruz	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Santa Cruz	BIRD	Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	ABNSB08041	SC	S			A	WSC	G5T3	S1
Santa Cruz	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Santa Cruz	BIRD	Pachyramphus aglaiae	Rose-throated Becard	ABPAE53070						WSC	G4G5	S1
Santa Cruz	BIRD	Pandion haliaetus	Osprey	ABNKC01010		S				WSC	G5	S2B,S4N
Santa Cruz	BIRD	Polioptila nigriceps	Black-capped Gnatcatcher	ABPB08040						WSC	G5	S1
Santa Cruz	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Santa Cruz	BIRD	Trogon elegans	Elegant Trogon	ABNWA02070						WSC	G5	S3
Santa Cruz	BIRD	Tyrannus crassirostris	Thick-billed Kingbird	ABPAE52040		S				WSC	G5	S2
Santa Cruz	BIRD	Tyrannus melancholicus	Tropical Kingbird	ABPAE52010						WSC	G5	S3
Santa Cruz	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Santa Cruz	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Santa Cruz	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Santa Cruz	FISH	Cyprinodon macularius	Desert Pupfish	AFCNB02060	LE				P	WSC	G1	S1
Santa Cruz	FISH	Gila ditaenia	Sonora Chub	AFCJB13090	LT				A	WSC	G2	S1
Santa Cruz	FISH	Gila intermedia	Gila Chub	AFCJB13160	LE		S		P	WSC	G2	S2
Santa Cruz	FISH	Poeciliopsis occidentalis occidentalis	Gila Topminnow	AFCNC05021	LE				A	WSC	G3T3	S1S2
Santa Cruz	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Santa Cruz	INVERTEBRATE	Agathymus aryxna	Arizona Giant Skipper	IILEP87080			S				G4G5	S5
Santa Cruz	INVERTEBRATE	Argia sabino	Sabino Canyon Dancer	IIDO068100	SC		S				G1G2	S2
Santa Cruz	INVERTEBRATE	Calephelis arizonensis	Arizona Metalmark	IILEPH2073			S				G3G4	S2
Santa Cruz	INVERTEBRATE	Heterelmis stephani	Stephan's Heterelmis Riffle Beetle	IICOL5B010	C		S				G1	S1
Santa Cruz	INVERTEBRATE	Limenitis archippus obsoleta	Obsolete Viceroy Butterfly	IILEPL3024			S				G5T3T4	S4
Santa Cruz	INVERTEBRATE	Neophasia terlooii	Chiricahua Pine White	IILEP99020			S				G3G4	S4
Santa Cruz	INVERTEBRATE	Pyrgulopsis thompsoni	Huachuca Springsnail	IMGASJ0230	C	S	S				G2	S2

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Santa Cruz	INVERTEBRATE	Stygobromus arizonensis	Arizona Cave Amphipod	ICMAL05360	SC		S				G1	S1?
Santa Cruz	INVERTEBRATE	Sympetrum signiferum	Mexican Meadowfly	IIODO61150			S				G2G3	S2
Santa Cruz	MAMMAL	Choeronycteris mexicana	Mexican Long-tongued Bat	AMACB02010	SC	S			A	WSC	G4	S3
Santa Cruz	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Santa Cruz	MAMMAL	Lasiurus blossevillii	Western Red Bat	AMACC05060		S				WSC	G5	S3
Santa Cruz	MAMMAL	Leptonycteris curasoae yerbabuenae	Lesser Long-nosed Bat	AMACB03030	LE		S			WSC	G4	S2S3
Santa Cruz	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Santa Cruz	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Santa Cruz	MAMMAL	Panthera onca	Jaguar	AMAJH02010	LE		S		P	WSC	G3	S1
Santa Cruz	MAMMAL	Sigmodon ochrognathus	Yellow-nosed Cotton Rat	AMAFF07040	SC						G4G5	S4
Santa Cruz	MAMMAL	Sorex arizonae	Arizona Shrew	AMABA01240	SC		S		P	WSC	G3	S2
Santa Cruz	MAMMAL	Thomomys umbrinus intermedius	Southern Pocket Gopher	AMAF01012			S				G5T3	S3
Santa Cruz	PLANT	Abutilon parishii	Pima Indian Mallow	PDMAL020E0	SC	S	S			SR	G2	S2
Santa Cruz	PLANT	Acacia farnesiana	Sweet Acacia	PDFAB020D0			S				G5	S1S2
Santa Cruz	PLANT	Agave parviflora ssp. parviflora	Santa Cruz Striped Agave	PMAGA010L2	SC		S		A	HS	G3T3	S3
Santa Cruz	PLANT	Allium rhizomatum	Redflower Onion	PMLIL02320			S			SR	G3?Q	S1
Santa Cruz	PLANT	Amoreuxia gonzalezii	Saiya	PDBIX01010	SC		S			HS	G1	S1
Santa Cruz	PLANT	Amsonia grandiflora	Large-flowered Blue Star	PDAP003060	SC		S				G2	S2
Santa Cruz	PLANT	Arabis tricornuta	Chiricahua Rock Cress	PDBRA06200			S				G1?	S1?
Santa Cruz	PLANT	Asclepias lemmonii	Lemmon Milkweed	PDASC020Z0			S				G4?	S2
Santa Cruz	PLANT	Asclepias uncialis	Greene Milkweed	PDASC02220	SC		S				G3G4	S1?
Santa Cruz	PLANT	Astragalus hypoxylus	Huachuca Milk-vetch	PDFAB0F470	SC	S	S			SR	G1	S1
Santa Cruz	PLANT	Browallia eludens	Elusive New Browallia Species	PDSOL03030	SC		S				G2?	S1
Santa Cruz	PLANT	Capsicum annuum var. glabriusculum	Chiltepin	PDSOL06012			S				G5T5	S2
Santa Cruz	PLANT	Carex chihuahuensis	A Sedge	PMCYP032T0			S				G3G4	S2S3
Santa Cruz	PLANT	Carex ultra	Arizona Giant Sedge	PMCYP03E50		S	S				G3?	S2
Santa Cruz	PLANT	Choisya mollis	Santa Cruz Star Leaf	PDRUT02022	SC		S				G5?T2?	S2
Santa Cruz	PLANT	Conioselinum mexicanum	Mexican Hemlock Parsley	PDAP003030	SC		S				G2?	S1
Santa Cruz	PLANT	Coryphantha recurvata	Santa Cruz Beehive Cactus	PDCAC04090			S			HS	G3	S3

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Santa Cruz	PLANT	Coryphantha scheeri var. robustispina	Pima Pineapple Cactus	PDCAC040C1	LE					HS	G4T2	S2
Santa Cruz	PLANT	Coursetia glabella		PDFAB140B0	SC		S				G3?	S1
Santa Cruz	PLANT	Dalea tentaculoides	Gentry Indigo Bush	PDFAB1A1K0	SC	S	S			HS	G1	S1
Santa Cruz	PLANT	Erigeron arisolius		PDAST3M510			S				G2	S2
Santa Cruz	PLANT	Euphorbia macropus	Woodland Spurge	PDEUP0Q2U0	SC					SR	G4	S2
Santa Cruz	PLANT	Graptopetalum bartramii	Bartram Stonecrop	PDCRA06010	SC	S	S			SR	G3	S3
Santa Cruz	PLANT	Hedeoma dentatum	Mock-pennyroyal	PDLAM0M0M0			S				G3	S3
Santa Cruz	PLANT	Heterotheca rutteri	Huachuca Golden Aster	PDAST4V0J0	SC	S	S				G2	S2
Santa Cruz	PLANT	Hexalectris revoluta	Chisos Coral-root	PMORC1C030			S			SR	G1G2	S1
Santa Cruz	PLANT	Hexalectris spicata	Crested Coral Root	PMORC1C040						SR	G5	S3S4
Santa Cruz	PLANT	Hieracium pringlei	Pringle Hawkweed	PDAST4W170	SC		S				G2Q	S1
Santa Cruz	PLANT	Ipomoea plummerae var. cuneifolia	Huachuca Morning Glory	PDCON0A141			S				G4T3	S3
Santa Cruz	PLANT	Ipomoea thurberi	Thurber's Morning-glory	PDCON0A1K0			S				G3	S1
Santa Cruz	PLANT	Laennecia eriophylla	Woolly Fleabane	PDASTDL020			S				G3	S2
Santa Cruz	PLANT	Lilaeopsis schaffneriana var. recurva	Huachuca Water Umbel	PDAPI19051	LE					HS	G4T2	S2
Santa Cruz	PLANT	Lilium parryi	Lemmon Lily	PMLIL1A0J0	SC		S			SR	G3	S2
Santa Cruz	PLANT	Lobelia fenestralis	Leafy Lobelia	PDCAM0E0H0						SR	G4	S1
Santa Cruz	PLANT	Lobelia laxiflora	Mexican Lobelia	PDCAM0E0X0						SR	G4	S1
Santa Cruz	PLANT	Lotus alamosanus	Alamos Deer Vetch	PDFAB2A020			S				G3G4	S1
Santa Cruz	PLANT	Lupinus huachucanus	Huachuca Mountain Lupine	PDFAB2B210			S				G2	S2
Santa Cruz	PLANT	Macropitilium supinum	Supine Bean	PDFAB330L0	SC		S			SR	G2	S1
Santa Cruz	PLANT	Malaxis corymbosa	Madrean Adders Mouth	PMORC1R020						SR	G4	S3S4
Santa Cruz	PLANT	Malaxis porphyrea	Purple Adder's Mouth	PMORC1R0Q0						SR	G4	S2
Santa Cruz	PLANT	Mammillaria wrightii var. wilcoxii	Wilcox Fishhook Cactus	PDCAC0A0E1						SR	G4T4	S4
Santa Cruz	PLANT	Manihot davisiae	Arizona Manihot	PDEUP0Z010			S				G4	S2
Santa Cruz	PLANT	Marina diffusa	Escoba	PDFAB2F020			S				G5?	S1
Santa Cruz	PLANT	Metastelma mexicanum	Wiggins Milkweed Vine	PDASC050P0	SC		S				G3G4	S1S2
Santa Cruz	PLANT	Muhlenbergia dubioides	Box Canyon Muhly	PMPOA480G0			S				G1Q	S1
Santa Cruz	PLANT	Muhlenbergia xerophila	Weeping Muhly	PMPOA48220			S				G3	S1

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Santa Cruz	PLANT	Notholaena lemmonii	Lemmon Cloak Fern	PPADI0G0D0	SC						G3?	S1S2
Santa Cruz	PLANT	Opuntia versicolor	Stag-horn Cholla	PDCAC0D1K0						SR	G4	S2S3
Santa Cruz	PLANT	Paspalum virletii	Virlet Paspalum	PMPOA4P1L0			S				G3?	S1
Santa Cruz	PLANT	Passiflora arizonica	Arizona Passionflower	PDPAS01073			S				G5T3T5	S2
Santa Cruz	PLANT	Pectis imberbis	Beardless Chinch Weed	PDAST6W0A0	SC		S				G3	S1
Santa Cruz	PLANT	Penstemon discolor	Catalina Beardtongue	PDSCR1L210			S			HS	G2	S2
Santa Cruz	PLANT	Penstemon superbus	Superb Beardtongue	PDSCR1L630			S				G3?	S2?
Santa Cruz	PLANT	Physalis latiphysa	Broad-leaf Ground-cherry	PDSOL0S0H0			S				G1	S1
Santa Cruz	PLANT	Psilotum nudum	Whisk Fern	PPPSI01020						HS	G5	S1
Santa Cruz	PLANT	Samolus vagans	Chiricahua Mountain Brookweed	PDPRI09040			S				G2?	S2
Santa Cruz	PLANT	Schiedeella arizonica	Fallen Ladies'-tresses	PMORC67020						SR	GNR	S4
Santa Cruz	PLANT	Senecio carlomasonii	Seemann Groundsel	PDAST8H3W0			S				G4?Q	S2S3
Santa Cruz	PLANT	Senecio multidentatus var. huachuensis	Huachuca Groundsel	PDAST8H411			S			HS	G2G4T2	S2
Santa Cruz	PLANT	Sisyrinchium cernuum	Nodding Blue-eyed Grass	PMIRI0D0B0			S				G5	S2
Santa Cruz	PLANT	Solanum lumholtzianum	Lumholtz Nightshade	PDSOL0Z180			S				G3G4	S3
Santa Cruz	PLANT	Spiranthes delitescens	Madrean Ladies'-tresses	PMORC2B140	LE					HS	G1	S1
Santa Cruz	PLANT	Stenorrhynchos michuacanum	Michoacan Ladies'-tresses	PMORC2B0L0						SR	G4	S3
Santa Cruz	PLANT	Stevia lemmonii	Lemmon's Stevia	PDAST8V010			S				G3G4	S2
Santa Cruz	PLANT	Talinum humile	Pinos Altos Flame Flower	PDPOR080A0	SC		S			SR	G2	S1
Santa Cruz	PLANT	Talinum marginatum	Tepic Flame Flower	PDPOR080N0	SC		S			SR	G2	S1
Santa Cruz	PLANT	Tephrosia thurberi	Thurber Hoary Pea	PDFAB3X0M0			S				G4G5	S3
Santa Cruz	PLANT	Tragia laciniata	Sonoran Noseburn	PDEUP1D060			S				G3G4	S3?
Santa Cruz	PLANT	Viola umbraticola	Shade Violet	PDVIO042E0			S				G3G4	S2?
Santa Cruz	REPTILE	Aspidoscelis burti stictogrammus	Giant Spotted Whiptail	ARACJ02011	SC		S				G4T4	S2
Santa Cruz	REPTILE	Crotalus willardi willardi	Arizona Ridge-nosed Rattlesnake	ARADE02132			S		PR	WSC	G5T4	S1S2
Santa Cruz	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Santa Cruz	REPTILE	Lampropeltis getula nigrita	Western Black Kingsnake	ARADB19026			S		A		G5T3T4Q	S3
Santa Cruz	REPTILE	Oxybelis aeneus	Brown Vinesnake	ARADB24010						WSC	G5	S1
Santa Cruz	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Yavapai	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		S				G3G4	S3S4
Yavapai	AMPHIBIAN	Lithobates chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		A	WSC	G3	S2
Yavapai	AMPHIBIAN	Lithobates pipiens	Northern Leopard Frog	AAABH01170		S	S	2		WSC	G5	S2
Yavapai	AMPHIBIAN	Lithobates yavapaiensis	Lowland Leopard Frog	AAABH01250	SC	S	S		PR	WSC	G4	S3
Yavapai	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC	S	S	4	A	WSC	G5	S3B
Yavapai	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Yavapai	BIRD	Buteo regalis	Ferruginous Hawk	ABNKC19120	SC	S		3		WSC	G4	S2B,S4N
Yavapai	BIRD	Buteo swainsoni	Swainson's Hawk	ABNKC19070		S					G5	S3
Yavapai	BIRD	Buteogallus anthracinus	Common Black-Hawk	ABNKC15010		S	S		A	WSC	G4G5	S3
Yavapai	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Yavapai	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Yavapai	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC	S	S	4	A	WSC	G4T4	S4
Yavapai	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Yavapai	BIRD	Haliaeetus leucocephalus pop. 3	Bald Eagle - Sonoran Desert area Population	ABNKC10014	LT	S	S	2	P	WSC	G5TNR	S2S3
Yavapai	BIRD	Megaceryle alcyon	Belted Kingfisher	ABNXD01020				4		WSC	G5	S2B,S5N
Yavapai	BIRD	Pinicola enucleator	Pine Grosbeak	ABPBY03010						WSC	G5	S1
Yavapai	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				P	WSC	G5T3	S3
Yavapai	BIRD	Setophaga ruticilla	American Redstart	ABPBX06010						WSC	G5	S1
Yavapai	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	A	WSC	G3T3	S3S4
Yavapai	FISH	Agosia chrysogaster chrysogaster	Gila Longfin Dace	AFCJB37151	SC	S			A		G4T3T4	S3S4
Yavapai	FISH	Catostomus clarkii	Desert Sucker	AFCJC02040	SC	S					G3G4	S3S4
Yavapai	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			P		G3	S3
Yavapai	FISH	Cyprinodon macularius	Desert Pupfish	AFCNB02060	LE				P	WSC	G1	S1
Yavapai	FISH	Gila intermedia	Gila Chub	AFCJB13160	LE		S		P	WSC	G2	S2
Yavapai	FISH	Gila nigra	Headwater Chub	AFCJB13180	C						G2Q	S2
Yavapai	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC	S	S	2	PR	WSC	G3	S2
Yavapai	FISH	Meda fulgida	Spikedace	AFCJB22010	LT		S			WSC	G2	S1
Yavapai	FISH	Poeciliopsis occidentalis occidentalis	Gila Topminnow	AFCNC05021	LE				A	WSC	G3T3	S1S2
Yavapai	FISH	Ptychocheilus lucius	Colorado Pikeminnow	AFCJB35020	LE,XN			2	P	WSC	G1	S1

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Yavapai	FISH	Rhinichthys osculus	Speckled Dace	AFCJB37050	SC	S			P		G5	S3S4
Yavapai	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
Yavapai	INVERTEBRATE	Cicindela oregona maricopa	Maricopa Tiger Beetle	IICOL02362	SC		S				G5T3	S3
Yavapai	INVERTEBRATE	Cylloepus parkeri	Parker's Cylloepus Riffle Beetle	IICOL59010	SC		S				G1?	S1
Yavapai	INVERTEBRATE	Metrichia nigrutta	Page Spring Micro Caddisfly	IITRI97010	SC						G5	S1
Yavapai	INVERTEBRATE	Protoptila balmorhea	Balmorhea Saddle-case Caddisfly	IITRI34040	SC						G2	S?
Yavapai	INVERTEBRATE	Pyrgulopsis glandulosa	Verde Rim Springsnail	IMGASJ0180	SC	S	S				G1	S1
Yavapai	INVERTEBRATE	Pyrgulopsis montezumensis	Montezuma Well Springsnail	IMGASJ0190	SC	S	S				G1	S1
Yavapai	INVERTEBRATE	Pyrgulopsis morrisoni	Page Springsnail	IMGASJ0200	C	S	S				G1	S1S2
Yavapai	INVERTEBRATE	Pyrgulopsis simplex	Fossil Springsnail	IMGASJ0210	SC	S	S				G1G2	S1
Yavapai	INVERTEBRATE	Pyrgulopsis sola	Brown Springsnail	IMGASJ0220	SC	S	S				G1	S1
Yavapai	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Yavapai	MAMMAL	Euderma maculatum	Spotted Bat	AMACC07010	SC	S			PR	WSC	G4	S1S2
Yavapai	MAMMAL	Idionycteris phyllotis	Allen's Big-eared Bat	AMACC09010	SC						G3G4	S2S3
Yavapai	MAMMAL	Lasiurus blossevillei	Western Red Bat	AMACC05060		S				WSC	G5	S3
Yavapai	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Yavapai	MAMMAL	Microtus mexicanus hualpaiensis	Hualapai Mexican Vole	AMAFF11212	LE					WSC	G5T1Q	S1
Yavapai	MAMMAL	Myotis ciliolabrum	Western Small-footed Myotis	AMACC01140	SC						G5	S3S4
Yavapai	MAMMAL	Myotis occultus	Arizona Myotis	AMACC01160	SC						G3G4	S3
Yavapai	MAMMAL	Myotis thysanodes	Fringed Myotis	AMACC01090	SC						G4G5	S3S4
Yavapai	MAMMAL	Myotis velifer	Cave Myotis	AMACC01050	SC						G5	S3S4
Yavapai	MAMMAL	Myotis volans	Long-legged Myotis	AMACC01110	SC						G5	S3S4
Yavapai	MAMMAL	Nyctinomops macrotis	Big Free-tailed Bat	AMACD04020	SC						G5	S3
Yavapai	MAMMAL	Sigmodon arizonae arizonae	Camp Verde Cotton Rat	AMAFF07023						WSC	G5TH	SH
Yavapai	PLANT	Abutilon parishii	Pima Indian Mallow	PDMAL020E0	SC	S	S			SR	G2	S2
Yavapai	PLANT	Agave arizonica	Arizona Agave	PMAGA01030	No status					HS	G1Q	SHYB
Yavapai	PLANT	Agave delamateri	Tonto Basin Agave	PMAGA010W0	SC		S			HS	G2	S2
Yavapai	PLANT	Agave mckelveyana	Mckelvey's Agave	PMAGA010D0						SR	G4	S4
Yavapai	PLANT	Agave murpheyi	Hohokam Agave	PMAGA010F0	SC	S	S			HS	G2	S2

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Yavapai	PLANT	Agave toumeyana var. bella	Toumey Agave	PMAGA010R1						SR	G3T3	S3
Yavapai	PLANT	Allium bigelovii	Bigelow Onion	PMLIL02070						SR	G3	S2S3
Yavapai	PLANT	Arenaria aberrans	Mt. Dellenbaugh Sandwort	PDCAR04010			S				G2	S2
Yavapai	PLANT	Astragalus newberryi var. aquarii	Aquarius Milkvetch	PDFAB0F5Y5		S					G5T1	S1
Yavapai	PLANT	Carex ultra	Arizona Giant Sedge	PMCYP03E50		S	S				G3?	S2
Yavapai	PLANT	Cymopterus megacephalus	Cameron Water-parsley	PDAPI0U0M0	SC		S				G3	S3
Yavapai	PLANT	Erigeron saxatilis	Rock Fleabane	PDAST3M560			S				G3	S3
Yavapai	PLANT	Eriogonum ericifolium var. ericifolium	Heathleaf Wild-buckwheat	PDPGN08231			S				G3T2	S2
Yavapai	PLANT	Eriogonum ripleyi	Ripley Wild-buckwheat	PDPGN08520	SC		S			SR	G2	S2
Yavapai	PLANT	Escobaria vivipara var. rosea	Viviparous Foxtail Cactus	PDCAC0X0G8						SR	G5T3	S3
Yavapai	PLANT	Ferocactus cylindraceus var. eastwoodiae	Golden Barrel Cactus	PDCAC08084						SR	G5T1	S1
Yavapai	PLANT	Fremontodendron californicum	Flannel Bush	PDSTE03010		S				SR	G4	S2S3
Yavapai	PLANT	Hedeoma diffusum	Flagstaff Pennyroyal	PDLAM0M0N0			S			SR	G3	S3
Yavapai	PLANT	Heuchera eastwoodiae	Eastwood Alum Root	PDSAX0E0B0			S				G3	S3
Yavapai	PLANT	Hexalectris spicata	Crested Coral Root	PMORC1C040						SR	G5	S3S4
Yavapai	PLANT	Lupinus latifolius ssp. leucanthus	Broadleaf Lupine	PDFAB2B29D			S				G5T1T2	S1
Yavapai	PLANT	Mammillaria viridiflora	Varied Fishhook Cactus	PDCAC0A0D0						SR	G4	S4
Yavapai	PLANT	Penstemon nudiflorus	Flagstaff Beardtongue	PDSCR1L4A0			S				G2G3	S2S3
Yavapai	PLANT	Phlox amabilis	Arizona Phlox	PDPLM0D050			S				G2	S2
Yavapai	PLANT	Polygala rusbyi	Hualapai Milkwort	PDPGL021H0			S				G3	S3
Yavapai	PLANT	Puccinellia parishii	Parish Alkali Grass	PMPOA530T0	SC			4		HS	G2G3	S2
Yavapai	PLANT	Purshia subintegra	Arizona Cliff Rose	PDROS1E080	LE					HS	GNA	S1
Yavapai	PLANT	Salvia dorrii ssp. mearnsii	Verde Valley Sage	PDLAM1S0G5	SC		S			SR	G5T3	S3
Yavapai	PLANT	Talinum validulum	Tusayan Flame Flower	PDPOR080M0	SC					SR	G3	S3
Yavapai	PLANT	Thelypteris puberula var. sonorensis	Aravaipa Wood Fern	PPTHE05192		S					G5T3	S2
Yavapai	PLANT	Triteleia lemmoniae	Mazatzal Triteleia	PMLIL210C0						SR	G3	S3
Yavapai	PLANT	Washingtonia filifera	California Fan Palm	PMARE0G010						SR	G4	S1
Yavapai	REPTILE	Charina trivirgata gracia	Desert Rosy Boa	ARADA01021	SC	S	S				G4G5T3	S3S4
Yavapai	REPTILE	Eumeces gilberti arizonensis	Arizona Skink	ARACH01061	SC		S		PR	WSC	G5T1Q	S1

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COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Yavapai	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Yavapai	REPTILE	Heloderma suspectum cinctum	Banded Gila Monster	ARACE01011	SC				A		G4T4	S4
Yavapai	REPTILE	Thamnophis eques megalops	Northern Mexican Gartersnake	ARADB36061	C		S		A	WSC	G5T5	S1
Yavapai	REPTILE	Thamnophis rufipunctatus	Narrow-headed Gartersnake	ARADB36110	SC	S	S			WSC	G3G4	S1
Yavapai	REPTILE	Xantusia arizonae	Arizona Night Lizard	ARACK01050			S				G3	S1
Yuma	BIRD	Ardea alba	Great Egret	ABNGA04040		S				WSC	G5	S1B,S4N
Yuma	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
Yuma	BIRD	Coccyzus americanus	Yellow-billed Cuckoo (Western U.S. DPS)	ABNRB02020	C			2		WSC	G5	S3
Yuma	BIRD	Egretta thula	Snowy Egret	ABNGA06030		S				WSC	G5	S1B,S4N
Yuma	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	S1
Yuma	BIRD	Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	ABNSB08041	SC	S			A	WSC	G5T3	S1
Yuma	BIRD	Haliaeetus leucocephalus (wintering pop.)	Bald Eagle - Winter Population	ABNKC10015	SC	S	S	2	P	WSC	G5TNR	S4N
Yuma	BIRD	Ixobrychus exilis	Least Bittern	ABNGA02010		S			A	WSC	G5	S3
Yuma	BIRD	Lanius ludovicianus	Loggerhead Shrike	ABPBR01030	SC						G4	S4
Yuma	BIRD	Laterallus jamaicensis coturniculus	California Black Rail	ABNME03041	SC	S	S		PR	WSC	G4T1	S1
Yuma	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				P	WSC	G5T3	S3
Yuma	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	LE		S	2	P	WSC	G1	S1
Yuma	MAMMAL	Antilocapra americana sonoriensis	Sonoran Pronghorn	AMALD01012	LE		S		P	WSC	G5T1	S1
Yuma	MAMMAL	Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	AMACC08014	SC	S		4			G4T4	S3S4
Yuma	MAMMAL	Euderma maculatum	Spotted Bat	AMACC07010	SC	S			PR	WSC	G4	S1S2
Yuma	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC	S					G5T4	S3
Yuma	MAMMAL	Lasiurus xanthinus	Western Yellow Bat	AMACC05070		S				WSC	G5	S2S3
Yuma	MAMMAL	Leptonycteris curasoae yerbabuena	Lesser Long-nosed Bat	AMACB03030	LE		S			WSC	G4	S2S3
Yuma	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC	S				WSC	G4	S3
Yuma	MAMMAL	Myotis yumanensis	Yuma Myotis	AMACC01020	SC						G5	S3S4
Yuma	MAMMAL	Sigmodon hispidus eremicus	Yuma Hispid Cotton Rat	AMAFF07013	SC						G5T2T3	S2
Yuma	PLANT	Allium parishii	Parish Onion	PMLIL021N0		S				SR	G3	S1
Yuma	PLANT	Berberis harrisoniana	Kofa Mt Barberry	PDBER02030		S					G1G2	S1S2
Yuma	PLANT	Cryptantha ganderi	Gander's Cryptantha	PDBOR0A120	SC						G1G2	S1

COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED	STATE	GRANK	S RANK
Yuma	PLANT	Echinocactus polycephalus var. polycephalus	Clustered Barrel Cactus	PDCAC05033						SR	G3G4T3T4	S2
Yuma	PLANT	Euphorbia platysperma	Dune Spurge	PDEUP0D1X0	SC						G3	S1
Yuma	PLANT	Ferocactus cylindraceus var. cylindraceus	California Barrel Cactus	PDCAC08081					PR	SR	G5T4	S3
Yuma	PLANT	Helianthus niveus ssp. tephrodes	Dune Sunflower	PDAST4N0Z2	SC						G4T2	S2
Yuma	PLANT	Lophocereus schottii	Senita	PDCAC14010						SR	G4	S2
Yuma	PLANT	Opuntia echinocarpa	Straw-top Cholla	PDCAC0D2W0						SR	G5	S5
Yuma	PLANT	Pholisma sonora	Sand Food	PDLNN02020	SC	S				HS	G2	S1
Yuma	PLANT	Rhus kearneyi	Kearney Sumac	PDANA08050		S				SR	G4	S2
Yuma	PLANT	Stephanomeria schottii	Schott Wire Lettuce	PDAST8U0D0		S					G2	S2
Yuma	PLANT	Triteleopsis palmeri	Blue Sand Lily	PMLIL22010		S				SR	G3	S1
Yuma	PLANT	Washingtonia filifera	California Fan Palm	PMARE0G010						SR	G4	S1
Yuma	REPTILE	Charina trivirgata gracia	Desert Rosy Boa	ARADA01021	SC	S	S				G4G5T3	S3S4
Yuma	REPTILE	Gopherus agassizii (Sonoran Population)	Sonoran Desert Tortoise	ARAAF01013	SC	S			A	WSC	G4T4	S4
Yuma	REPTILE	Heloderma suspectum cinctum	Banded Gila Monster	ARACE01011	SC				A		G4T4	S4
Yuma	REPTILE	Phrynosoma mcallii	Flat-tailed Horned Lizard	ARACF12040	SC	S			A	WSC	G3	S2
Yuma	REPTILE	Sauromalus ater (Arizona Population)	Arizona Chuckwalla	ARACF13013	SC	S			A		G5T4Q	S4
Yuma	REPTILE	Uma rufopunctata	Yuman Desert Fringe-toed Lizard	ARACF15040	SC	S	S		A	WSC	G3	S2

APPENDIX D
AIR QUALITY CALCULATIONS

CALCULATION SHEET-COMBUSTIBLE EMISSIONS-PROPOSED ACTION

Assumptions for Combustible Emissions					
Type of Construction Equipment	Num. of Units	HP Rated	Hrs/day	Days/yr	Total hp-hrs
Water Truck	2	300	8	240	1152000
Diesel Road Compactors	1	100	8	40	32000
Diesel Dump Truck	1	300	8	90	216000
Diesel Excavator	1	300	8	90	216000
Diesel Hole Trenchers	1	175	8	90	126000
Diesel Bore/Drill Rigs	1	300	8	90	216000
Diesel Cement & Mortar Mixers	1	300	8	90	216000
Diesel Cranes	2	175	8	90	252000
Diesel Graders	1	300	8	90	216000
Diesel Tractors/Loaders/Backhoes	1	100	8	180	144000
Diesel Bull Dozers	1	300	8	40	96000
Diesel Front End Loaders	1	300	8	40	96000
Diesel Fork Lifts	2	100	8	40	64000
Diesel Generator Set	6	40	8	40	76800

Emission Factors							
Type of Construction Equipment	VOC g/hp-hr	CO g/hp-hr	NOx g/hp-hr	PM-10 g/hp-hr	PM-2.5 g/hp-hr	SO2 g/hp-hr	CO2 g/hp-hr
Water Truck	0.440	2.070	5.490	0.410	0.400	0.740	536.000
Diesel Road Compactors	0.370	1.480	4.900	0.340	0.330	0.740	536.200
Diesel Dump Truck	0.440	2.070	5.490	0.410	0.400	0.740	536.000
Diesel Excavator	0.340	1.300	4.600	0.320	0.310	0.740	536.300
Diesel Trenchers	0.510	2.440	5.810	0.460	0.440	0.740	535.800
Diesel Bore/Drill Rigs	0.600	2.290	7.150	0.500	0.490	0.730	529.700
Diesel Cement & Mortar Mixers	0.610	2.320	7.280	0.480	0.470	0.730	529.700
Diesel Cranes	0.440	1.300	5.720	0.340	0.330	0.730	530.200
Diesel Graders	0.350	1.360	4.730	0.330	0.320	0.740	536.300
Diesel Tractors/Loaders/Backhoes	1.850	8.210	7.220	1.370	1.330	0.950	691.100
Diesel Bull Dozers	0.360	1.380	4.760	0.330	0.320	0.740	536.300
Diesel Front End Loaders	0.380	1.550	5.000	0.350	0.340	0.740	536.200
Diesel Fork Lifts	1.980	7.760	8.560	1.390	1.350	0.950	690.800
Diesel Generator Set	1.210	3.760	5.970	0.730	0.710	0.810	587.300

CALCULATION SHEET-COMBUSTIBLE EMISSIONS-PROPOSED ACTION

Emission factors (EF) were generated from the NONROAD2005 model for the 2006 calendar year. The VOC EFs includes exhaust and evaporative emissions. The VOC evaporative components included in the NONROAD2005 model are diurnal, hotsoak, running loss, tank permeation, hose permeation, displacement, and spillage. The construction equipment age distribution in the NONROAD2005 model is based on the population in U.S. for the 2006 calendar year.

Emission Calculations							
Type of Construction Equipment	VOC tons/yr	CO tons/yr	NOx tons/yr	PM-10 tons/yr	PM-2.5 tons/yr	SO2 tons/yr	CO2 tons/yr
Water Truck	0.559	2.628	6.970	0.520	0.508	0.939	680.454
Diesel Road Paver	0.013	0.052	0.173	0.012	0.012	0.026	18.909
Diesel Dump Truck	0.105	0.493	1.307	0.098	0.095	0.176	127.585
Diesel Excavator	0.081	0.309	1.095	0.076	0.074	0.176	127.657
Diesel Hole Cleaners\Trenchers	0.071	0.339	0.807	0.064	0.061	0.103	74.397
Diesel Bore/Drill Rigs	0.143	0.545	1.702	0.119	0.117	0.174	126.086
Diesel Cement & Mortar Mixers	0.145	0.552	1.733	0.114	0.112	0.174	126.086
Diesel Cranes	0.122	0.361	1.588	0.094	0.092	0.203	147.239
Diesel Graders	0.083	0.324	1.126	0.079	0.076	0.176	127.657
Diesel Tractors/Loaders/Backhoes	0.294	1.303	1.146	0.217	0.211	0.151	109.669
Diesel Bull Dozers	0.038	0.146	0.504	0.035	0.034	0.078	56.736
Diesel Front End Loaders	0.040	0.164	0.529	0.037	0.036	0.078	56.726
Diesel Aerial Lifts	0.140	0.547	0.604	0.098	0.095	0.067	48.721
Diesel Generator Set	0.102	0.318	0.505	0.062	0.060	0.069	49.705
Total Emissions	1.936	8.081	19.787	1.626	1.582	2.590	1877.625

Conversion factors	
Grams to tons	1.102E-06

CALCULATION SHEET-TRANSPORTATION COMBUSTIBLE EMISSIONS-PROPOSED ACTION

Construction Worker Personal Vehicle Commuting to Construction Site-Passenger and Light Duty Trucks									
Pollutants	Emission Factors		Assumptions				Results by Pollutant		
	Passenger Cars g/mile	Pick-up Trucks, SUVs g/mile	Mile/day	Day/yr	Number of cars	Number of trucks	Total Emissions Cars tns/yr	Total Emissions Trucks tns/yr	Total tns/yr
VOCs	1.36	1.61	60	240	15	15	0.32	0.38	0.71
CO	12.4	15.7	60	240	15	15	2.95	3.74	6.69
NOx	0.95	1.22	60	240	15	15	0.23	0.29	0.52
PM-10	0.0052	0.0065	60	240	15	15	0.00	0.00	0.00
PM 2.5	0.0049	0.006	60	240	15	15	0.00	0.00	0.00

Heavy Duty Trucks Delivery Supply Trucks to Construction Site									
Pollutants	Emission Factors		Assumptions				Results by Pollutant		
	10,000-19,500 lb Delivery Truck	33,000-60,000 lb semi trailer rig	Mile/day	Day/yr	Number of trucks	Number of trucks	Total Emissions Cars tns/yr	Total Emissions Trucks tns/yr	Total tns/yr
VOCs	0.29	0.55	60	240	2	2	0.01	0.02	0.03
CO	1.32	3.21	60	240	2	2	0.04	0.10	0.14
NOx	4.97	12.6	60	240	2	2	0.16	0.40	0.56
PM-10	0.12	0.33	60	240	2	2	0.00	0.01	0.01
PM 2.5	0.13	0.36	60	240	2	2	0.00	0.01	0.02

Commute to Tower Sites for Maintenance									
Pollutants	Emission Factors		Assumptions				Results by Pollutant		
	Passenger Cars g/mile	Pick-up Trucks, SUVs g/mile	Mile/day	Day/yr	Number of Cars	Number of trucks	Total Emissions cars tns/yr	Total Emissions Trucks tns/yr	Total tns/yr
VOCs	1.36	1.61	120	12	0	2	-	0.01	0.01
CO	12.4	15.7	120	12	0	2	-	0.05	0.05
NOx	0.95	1.22	120	12	0	2	-	0.00	0.00
PM-10	0.0052	0.0065	120	12	0	2	-	0.00	0.00
PM 2.5	0.0049	0.006	120	12	0	2	-	0.00	0.00

Truck Emission Factor Source: USEPA 2005 Emission Facts: Average annual emissions and fuel consumption for gasoline-fueled passenger cars and light trucks. EPA 420-F-05-022 August 2005. Emission rates were generated using MOBILE.6 highway vehicle emission factor model.

CALCULATION SHEET-FUGITIVE DUST-PROPOSED ACTION

Construction Fugitive Dust Emissions

Construction Fugitive Dust Emission Factors

Emission Factor	Units	Source
General Construction Activities	0.19 ton PM10/acre-month	MRI 1996; EPA 2001; EPA 2006
New Road Construction	0.42 ton PM10/acre-month	MRI 1996; EPA 2001; EPA 2006

PM2.5 Emissions

PM2.5 Multiplier	0.10	(10% of PM10 emissions assumed to be PM2.5)	EPA 2001; EPA 2006
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Control Efficiency

0.50	(assume 50% control efficiency for PM10 and PM2.5 emissions)	EPA 2001; EPA 2006
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Project Assumptions

Construction Area (0.19 ton PM10/acre-month)

Duration of Construction Project	12	months
Length	0	miles
Length (converted)	0	feet
Width	0	feet
Area	4.60	acres

Conversion Factors

0.000022957	acres per feet
5280	feet per mile

Staging Areas

Duration of Construction Project		months
Length		miles
Length (converted)		feet
Width		feet
Area	0.00	acres

	Project Emissions (tons/year)			
	PM10 uncontrolled	PM10 controlled	PM2.5 uncontrolled	PM2.5 controlled
Construction Area (0.19 ton PM10/ac)	23.18	11.59	2.32	1.16
Staging Areas	0.00	0.00	0.00	0.00
Total	23.18	11.59	2.32	1.16

Construction Fugitive Dust Emission Factors

General Construction Activities Emission Factor

0.19 ton PM10/acre-month Source: MRI 1996; EPA 2001; EPA 2006

The area-based emission factor for construction activities is based on a study completed by the Midwest Research Institute (MRI) Improvement of Specific Emission Factors (BACM Project No. 1), March 29, 1996. The MRI study evaluated seven construction projects in Nevada and California (Las Vegas, Coachella Valley, South Coast Air Basin, and the San Joaquin Valley). The study determined an average emission factor of 0.11 ton PM10/acre-month for sites without large-scale cut/fill operations. A worst-case emission factor of 0.42 ton PM10/acre-month was calculated for sites with active large-scale earth moving operations. The monthly emission factors are based on 168 work-hours per month (MRI 1996). A subsequent MRI Report in 1999, Estimating Particulate Matter Emissions from Construction Operations, calculated the 0.19 ton PM10/acre-month emission factor by applying 25% of the large-scale earthmoving emission factor (0.42 ton PM10/acre-month) and 75% of the average emission factor (0.11 ton PM10/acre-month).

The 0.19 ton PM10/acre-month emission factor is referenced by the EPA for non-residential construction activities in recent procedures documents for the National Emission Inventory (EPA 2001; EPA 2006). The 0.19 ton PM10/acre-month emission factor represents a refinement of EPA's original AP-42 area-based total suspended particle (TSP) emission factor in Section 13.2.3 Heavy Construction Operations. In addition to the EPA, this methodology is also supported by the South Coast Air Quality Management District and the Western Regional Air Partnership (WRAP) which is funded by the EPA and is administered jointly by the Western Governor's Association and the National Tribal Environmental Council. The emission factor is assumed to encompass a variety of non-residential construction activities including building construction (commercial, industrial, institutional, governmental), public works, and travel on unpaved roads. The EPA National Emission Inventory documentation assumes that the emission factors are uncontrolled and recommends a control efficiency of 50% for PM10 and PM2.5 in PM nonattainment areas.

New Road Construction Emission Factor

0.42 ton PM10/acre-month Source: MRI 1996; EPA 2001; EPA 2006

The emission factor for new road construction is based on the worst-case conditions emission factor from the MRI 1996 study described above (0.42 tons PM10/acre-month). It is assumed that road construction involves extensive earthmoving and heavy construction vehicle travel resulting in emissions that are higher than other general construction projects. The 0.42 ton PM10/acre-month emission factor for road construction is referenced in recent procedures documents for the EPA National Emission Inventory (EPA 2001; EPA 2006).

PM2.5 Multiplier

0.10

PM2.5 emissions are estimated by applying a particle size multiplier of 0.10 to PM10 emissions. This methodology is consistent with the procedures documents for the National Emission Inventory (EPA 2006).

Control Efficiency for PM10 and PM2.5

0.50

The EPA National Emission Inventory documentation recommends a control efficiency of 50% for PM10 and PM2.5 in PM nonattainment areas. Wetting controls will be applied during project construction (EPA 2006).

References:

EPA 2001. *Procedures Document for National Emissions Inventory, Criteria Air Pollutants, 1985-1999*. EPA-454/R-01-006. Office of Air Quality Planning and Standards, United States Environmental Protection Agency. March 2001.

EPA 2006. *Documentation for the Final 2002 Nonpoint Sector (Feb 06 version) National Emission Inventory for Criteria and Hazardous Air Pollutants*. Prepared for: Emissions Inventory and Analysis Group (C339-02) Air Quality Assessment Division Office of Air Quality Planning and Standards, United States Environmental Protection Agency. July 2006.

MRI 1996. *Improvement of Specific Emission Factors (BACM Project No. 1)*. Midwest Research Institute (MRI). Prepared for the California South Coast Air Quality Management District, March 29, 1996.

CALCULATION SHEET-SUMMARY OF EMISSIONS-PROPOSED ACTION

Proposed Action Construction Emissions for Criteria Pollutants (tons per year)						
Emission Source	VOC	CO	NOx	PM-10	PM-2.5	SO2
Combustible Emissions	1.94	8.08	19.79	1.63	1.58	2.59
Construction Site-Fugitive PM-10	NA	NA	NA	11.59	1.16	NA
Construction Workers Commuter & Trucking	0.73	6.83	1.07	0.02	0.02	NA
Total emissions	2.67	14.91	20.86	13.23	2.76	2.59
De minimis Threshold (1)	NA	NA	NA	100.00	NA	NA

1. De-minimis thresholds for Santa Cruz County, the location of the tower sites and access roads.

CALCULATION SHEET-COMBUSTIBLE EMISSIONS-ALTERNATIVE 1

Assumptions for Combustible Emissions					
Type of Construction Equipment	Num. of Units	HP Rated	Hrs/day	Days/yr	Total hp-hrs
Water Truck	2	300	8	240	1152000
Diesel Road Compactors	1	100	8	90	72000
Diesel Dump Truck	1	300	8	120	288000
Diesel Excavator	1	300	8	120	288000
Diesel Hole Trenchers	1	175	8	120	168000
Diesel Bore/Drill Rigs	1	300	8	120	288000
Diesel Cement & Mortar Mixers	1	300	8	90	216000
Diesel Cranes	2	175	8	90	252000
Diesel Graders	1	300	8	90	216000
Diesel Tractors/Loaders/Backhoes	1	100	8	180	144000
Diesel Bull Dozers	2	300	8	40	192000
Diesel Front End Loaders	1	300	8	40	96000
Diesel Fork Lifts	2	100	8	40	64000
Diesel Generator Set	6	40	8	40	76800

Emission Factors							
Type of Construction Equipment	VOC g/hp-hr	CO g/hp-hr	NOx g/hp-hr	PM-10 g/hp-hr	PM-2.5 g/hp-hr	SO2 g/hp-hr	CO2 g/hp-hr
Water Truck	0.440	2.070	5.490	0.410	0.400	0.740	536.000
Diesel Road Compactors	0.370	1.480	4.900	0.340	0.330	0.740	536.200
Diesel Dump Truck	0.440	2.070	5.490	0.410	0.400	0.740	536.000
Diesel Excavator	0.340	1.300	4.600	0.320	0.310	0.740	536.300
Diesel Trenchers	0.510	2.440	5.810	0.460	0.440	0.740	535.800
Diesel Bore/Drill Rigs	0.600	2.290	7.150	0.500	0.490	0.730	529.700
Diesel Cement & Mortar Mixers	0.610	2.320	7.280	0.480	0.470	0.730	529.700
Diesel Cranes	0.440	1.300	5.720	0.340	0.330	0.730	530.200
Diesel Graders	0.350	1.360	4.730	0.330	0.320	0.740	536.300
Diesel Tractors/Loaders/Backhoes	1.850	8.210	7.220	1.370	1.330	0.950	691.100
Diesel Bull Dozers	0.360	1.380	4.760	0.330	0.320	0.740	536.300
Diesel Front End Loaders	0.380	1.550	5.000	0.350	0.340	0.740	536.200
Diesel Fork Lifts	1.980	7.760	8.560	1.390	1.350	0.950	690.800
Diesel Generator Set	1.210	3.760	5.970	0.730	0.710	0.810	587.300

CALCULATION SHEET-COMBUSTIBLE EMISSIONS-ALTERNATIVE 1

Emission factors (EF) were generated from the NONROAD2005 model for the 2006 calendar year. The VOC EFs includes exhaust and evaporative emissions. The VOC evaporative components included in the NONROAD2005 model are diurnal, hotsoak, running loss, tank permeation, hose permeation, displacement, and spillage. The construction equipment age distribution in the NONROAD2005 model is based on the population in U.S. for the 2006 calendar year.

Emission Calculations							
Type of Construction Equipment	VOC tons/yr	CO tons/yr	NOx tons/yr	PM-10 tons/yr	PM-2.5 tons/yr	SO2 tons/yr	CO2 tons/yr
Water Truck	0.559	2.628	6.970	0.520	0.508	0.939	680.454
Diesel Road Paver	0.029	0.117	0.389	0.027	0.026	0.059	42.544
Diesel Dump Truck	0.140	0.657	1.742	0.130	0.127	0.235	170.114
Diesel Excavator	0.108	0.413	1.460	0.102	0.098	0.235	170.209
Diesel Hole Cleaners\Trenchers	0.094	0.452	1.076	0.085	0.081	0.137	99.196
Diesel Bore/Drill Rigs	0.190	0.727	2.269	0.159	0.156	0.232	168.114
Diesel Cement & Mortar Mixers	0.145	0.552	1.733	0.114	0.112	0.174	126.086
Diesel Cranes	0.122	0.361	1.588	0.094	0.092	0.203	147.239
Diesel Graders	0.083	0.324	1.126	0.079	0.076	0.176	127.657
Diesel Tractors/Loaders/Backhoes	0.294	1.303	1.146	0.217	0.211	0.151	109.669
Diesel Bull Dozers	0.076	0.292	1.007	0.070	0.068	0.157	113.472
Diesel Front End Loaders	0.040	0.164	0.529	0.037	0.036	0.078	56.726
Diesel Aerial Lifts	0.140	0.547	0.604	0.098	0.095	0.067	48.721
Diesel Generator Set	0.102	0.318	0.505	0.062	0.060	0.069	49.705
Total Emissions	2.123	8.855	22.144	1.794	1.746	2.910	2109.905

Conversion factors	
Grams to tons	1.102E-06

CALCULATION SHEET-TRANSPORTATION COMBUSTIBLE EMISSIONS-ALTERNATIVE 1

Construction Worker Personal Vehicle Commuting to Construction Site-Passenger and Light Duty Trucks									
Pollutants	Emission Factors		Assumptions				Results by Pollutant		
	Passenger Cars g/mile	Pick-up Trucks, SUVs g/mile	Mile/day	Day/yr	Number of cars	Number of trucks	Total Emissions Cars tns/yr	Total Emissions Trucks tns/yr	Total tns/yr
VOCs	1.36	1.61	60	240	15	15	0.32	0.38	0.71
CO	12.4	15.7	60	240	15	15	2.95	3.74	6.69
NOx	0.95	1.22	60	240	15	15	0.23	0.29	0.52
PM-10	0.0052	0.0065	60	240	15	15	0.00	0.00	0.00
PM 2.5	0.0049	0.006	60	240	15	15	0.00	0.00	0.00

Heavy Duty Trucks Delivery Supply Trucks to Construction Site									
Pollutants	Emission Factors		Assumptions				Results by Pollutant		
	10,000-19,500 lb Delivery Truck	33,000-60,000 lb semi trailer rig	Mile/day	Day/yr	Number of trucks	Number of trucks	Total Emissions Cars tns/yr	Total Emissions Trucks tns/yr	Total tns/yr
VOCs	0.29	0.55	60	240	2	2	0.01	0.02	0.03
CO	1.32	3.21	60	240	2	2	0.04	0.10	0.14
NOx	4.97	12.6	60	240	2	2	0.16	0.40	0.56
PM-10	0.12	0.33	60	240	2	2	0.00	0.01	0.01
PM 2.5	0.13	0.36	60	240	2	2	0.00	0.01	0.02

Commute to Tower Sites for Maintenance									
Pollutants	Emission Factors		Assumptions				Results by Pollutant		
	Passenger Cars g/mile	Pick-up Trucks, SUVs g/mile	Mile/day	Day/yr	Number of Cars	Number of trucks	Total Emissions cars tns/yr	Total Emissions Trucks tns/yr	Total tns/yr
VOCs	1.36	1.61	120	12	0	2	-	0.01	0.01
CO	12.4	15.7	120	12	0	2	-	0.05	0.05
NOx	0.95	1.22	120	12	0	2	-	0.00	0.00
PM-10	0.0052	0.0065	120	12	0	2	-	0.00	0.00
PM 2.5	0.0049	0.006	120	12	0	2	-	0.00	0.00

Truck Emission Factor Source: USEPA 2005 Emission Facts: Average annual emissions and fuel consumption for gasoline-fueled passenger cars and light trucks. EPA 420-F-05-022 August 2005. Emission rates were generated using MOBILE.6 highway vehicle emission factor model.

CALCULATION SHEET-FUGITIVE DUST-ALTERNATIVE 1

Construction Fugitive Dust Emissions

Construction Fugitive Dust Emission Factors

Emission Factor	Units	Source
General Construction Activities	0.19 ton PM10/acre-month	MRI 1996; EPA 2001; EPA 2006
New Road Construction	0.42 ton PM10/acre-month	MRI 1996; EPA 2001; EPA 2006

PM2.5 Emissions

PM2.5 Multiplier	0.10	(10% of PM10 emissions assumed to be PM2.5)	EPA 2001; EPA 2006
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Control Efficiency

0.50	(assume 50% control efficiency for PM10 and PM2.5 emissions)	EPA 2001; EPA 2006
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Project Assumptions

Construction Area (0.19 ton PM10/acre-month)

Duration of Construction Project	12	months
Length	0	miles
Length (converted)	0	feet
Width	0	feet
Area	6.00	acres

Conversion Factors

0.000022957	acres per feet
5280	feet per mile

Staging Areas

Duration of Construction Project		months
Length		miles
Length (converted)		feet
Width		feet
Area	0.00	acres

	Project Emissions (tons/year)			
	PM10 uncontrolled	PM10 controlled	PM2.5 uncontrolled	PM2.5 controlled
Construction Area (0.19 ton PM10/ac)	30.24	15.12	3.02	1.51
Staging Areas	0.00	0.00	0.00	0.00
Total	30.24	15.12	3.02	1.51

Construction Fugitive Dust Emission Factors

General Construction Activities Emission Factor

0.19 ton PM10/acre-month Source: MRI 1996; EPA 2001; EPA 2006

The area-based emission factor for construction activities is based on a study completed by the Midwest Research Institute (MRI) Improvement of Specific Emission Factors (BACM Project No. 1), March 29, 1996. The MRI study evaluated seven construction projects in Nevada and California (Las Vegas, Coachella Valley, South Coast Air Basin, and the San Joaquin Valley). The study determined an average emission factor of 0.11 ton PM10/acre-month for sites without large-scale cut/fill operations. A worst-case emission factor of 0.42 ton PM10/acre-month was calculated for sites with active large-scale earth moving operations. The monthly emission factors are based on 168 work-hours per month (MRI 1996). A subsequent MRI Report in 1999, Estimating Particulate Matter Emissions from Construction Operations, calculated the 0.19 ton PM10/acre-month emission factor by applying 25% of the large-scale earthmoving emission factor (0.42 ton PM10/acre-month) and 75% of the average emission factor (0.11 ton PM10/acre-month).

The 0.19 ton PM10/acre-month emission factor is referenced by the EPA for non-residential construction activities in recent procedures documents for the National Emission Inventory (EPA 2001; EPA 2006). The 0.19 ton PM10/acre-month emission factor represents a refinement of EPA's original AP-42 area-based total suspended particle (TSP) emission factor in Section 13.2.3 Heavy Construction Operations. In addition to the EPA, this methodology is also supported by the South Coast Air Quality Management District and the Western Regional Air Partnership (WRAP) which is funded by the EPA and is administered jointly by the Western Governor's Association and the National Tribal Environmental Council. The emission factor is assumed to encompass a variety of non-residential construction activities including building construction (commercial, industrial, institutional, governmental), public works, and travel on unpaved roads. The EPA National Emission Inventory documentation assumes that the emission factors are uncontrolled and recommends a control efficiency of 50% for PM10 and PM2.5 in PM nonattainment areas.

New Road Construction Emission Factor

0.42 ton PM10/acre-month Source: MRI 1996; EPA 2001; EPA 2006

The emission factor for new road construction is based on the worst-case conditions emission factor from the MRI 1996 study described above (0.42 tons PM10/acre-month). It is assumed that road construction involves extensive earthmoving and heavy construction vehicle travel resulting in emissions that are higher than other general construction projects. The 0.42 ton PM10/acre-month emission factor for road construction is referenced in recent procedures documents for the EPA National Emission Inventory (EPA 2001; EPA 2006).

PM2.5 Multiplier

0.10

PM2.5 emissions are estimated by applying a particle size multiplier of 0.10 to PM10 emissions. This methodology is consistent with the procedures documents for the National Emission Inventory (EPA 2006).

Control Efficiency for PM10 and PM2.5

0.50

The EPA National Emission Inventory documentation recommends a control efficiency of 50% for PM10 and PM2.5 in PM nonattainment areas. Wetting controls will be applied during project construction (EPA 2006).

References:

EPA 2001. *Procedures Document for National Emissions Inventory, Criteria Air Pollutants, 1985-1999*. EPA-454/R-01-006. Office of Air Quality Planning and Standards, United States Environmental Protection Agency. March 2001.

EPA 2006. *Documentation for the Final 2002 Nonpoint Sector (Feb 06 version) National Emission Inventory for Criteria and Hazardous Air Pollutants*. Prepared for: Emissions Inventory and Analysis Group (C339-02) Air Quality Assessment Division Office of Air Quality Planning and Standards, United States Environmental Protection Agency. July 2006.

MRI 1996. *Improvement of Specific Emission Factors (BACM Project No. 1)*. Midwest Research Institute (MRI). Prepared for the California South Coast Air Quality Management District, March 29, 1996.

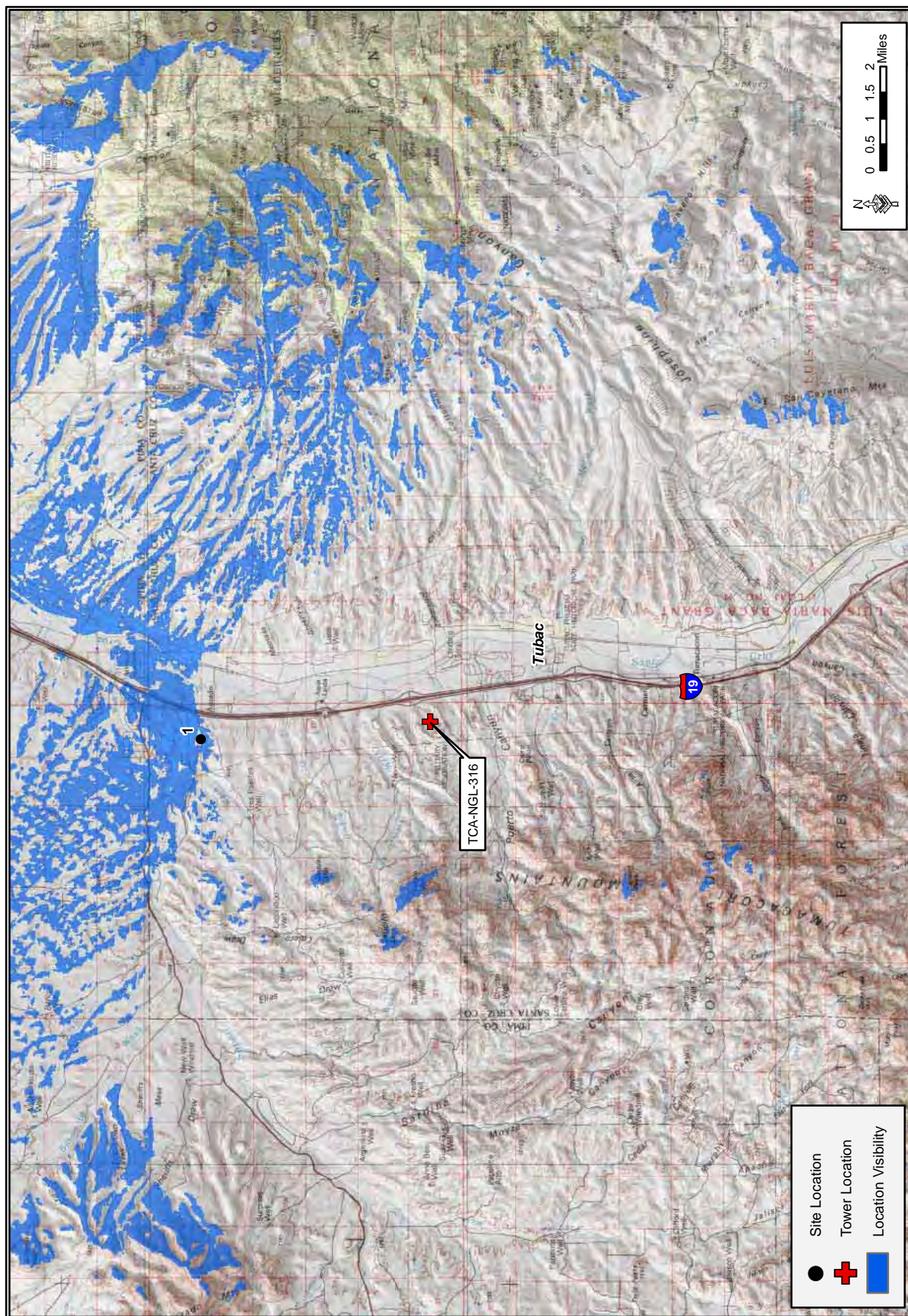
CALCULATION SHEET-SUMMARY OF EMISSIONS-ALTERNATIVE 1

Proposed Action Construction Emissions for Criteria Pollutants (tons per year)						
Emission Source	VOC	CO	NOx	PM-10	PM-2.5	SO2
Combustible Emissions	2.12	8.85	22.14	1.79	1.75	2.91
Construction Site-Fugitive PM-10	NA	NA	NA	15.12	1.51	NA
Construction Workers Commuter & Trucking	0.73	6.83	1.07	0.02	0.02	NA
Total emissions	2.86	15.69	23.22	16.93	3.28	2.91
De minimis Threshold (1)	NA	NA	NA	100.00	NA	NA

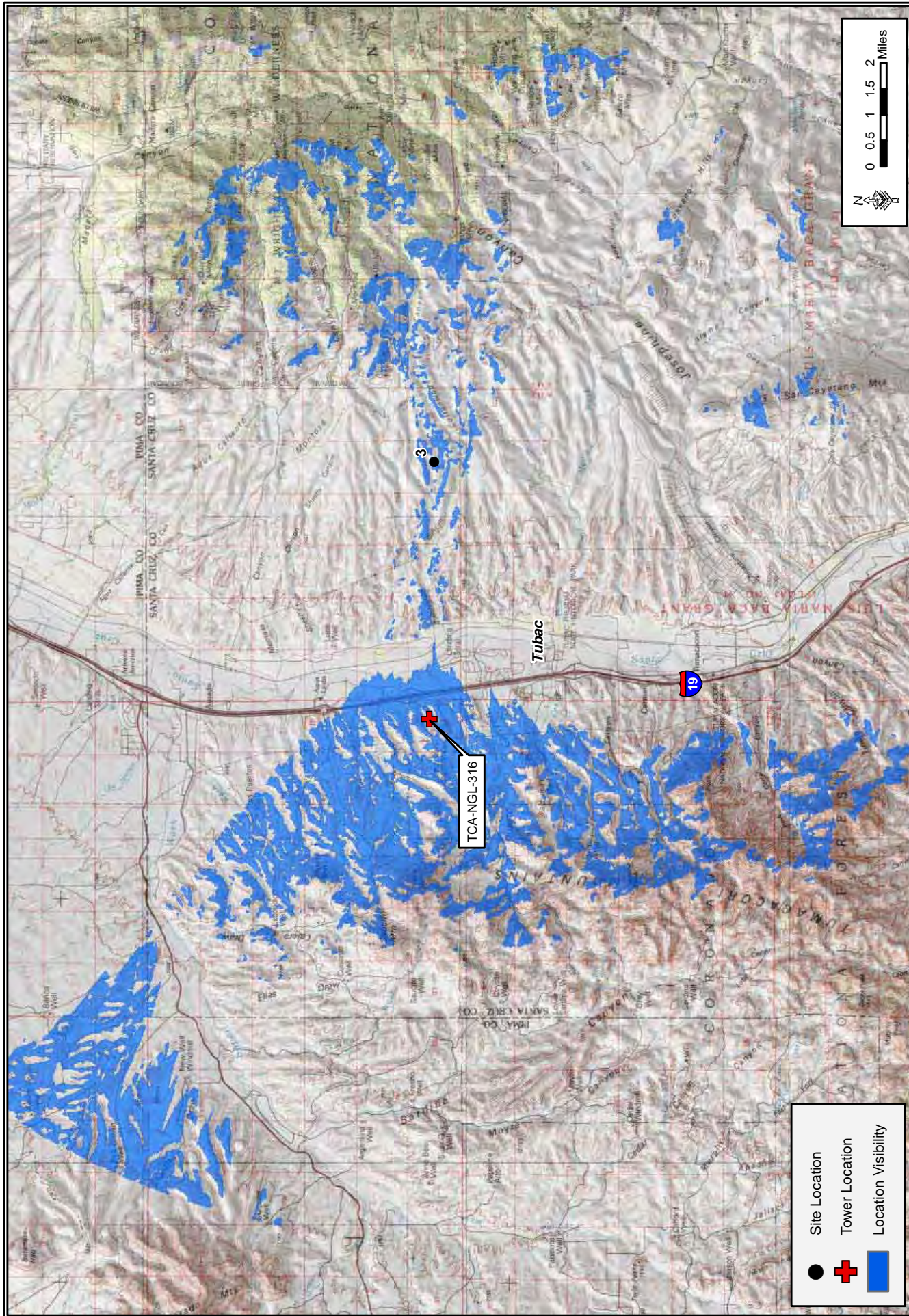
1. De-minimis thresholds for Santa Cruz County, the location of the tower sites and access roads.

APPENDIX E
VIEWSHED ANALYSIS

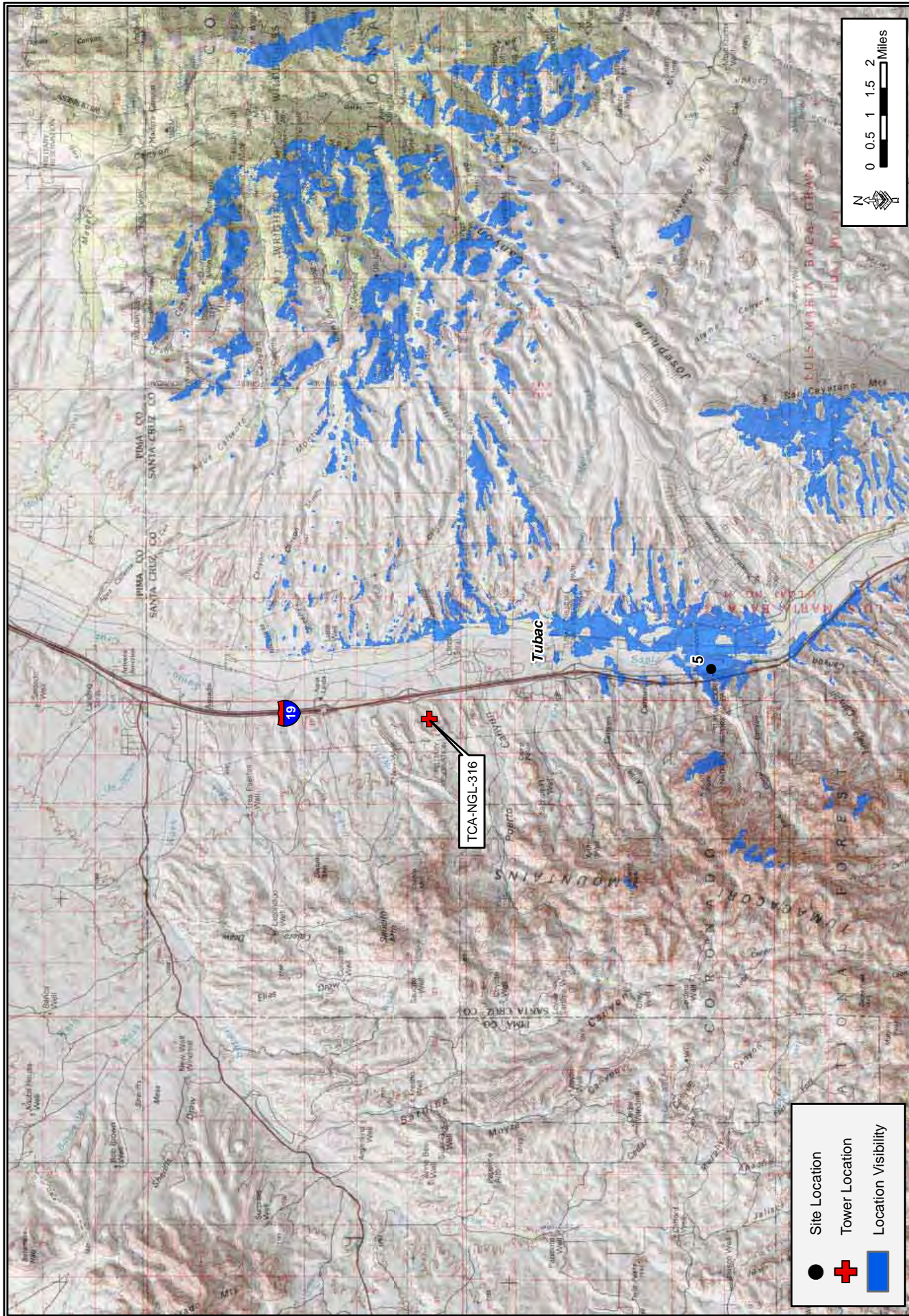
A viewshed analysis was performed from 15 observation points in the project area of the three proposed towers. The observation points used in this analysis were located along roads, populated areas, and higher elevation points and (i.e., Saucito Mountain), and where the public would visit for a wilderness experience. Additionally, a line-of-sight analysis was performed from each of the 15 observation points to verify the viewshed visibility. Both the viewshed and line-of-sight analyses were conducted using a three dimensional Geographic Information System. Both the height of the tower and observer were used in the analysis. A height of 6 feet was used for the observer. The following maps depict the viewshed of each proposed tower site and the area hi-lighted in blue indicates the area that could be seen from the observation points.



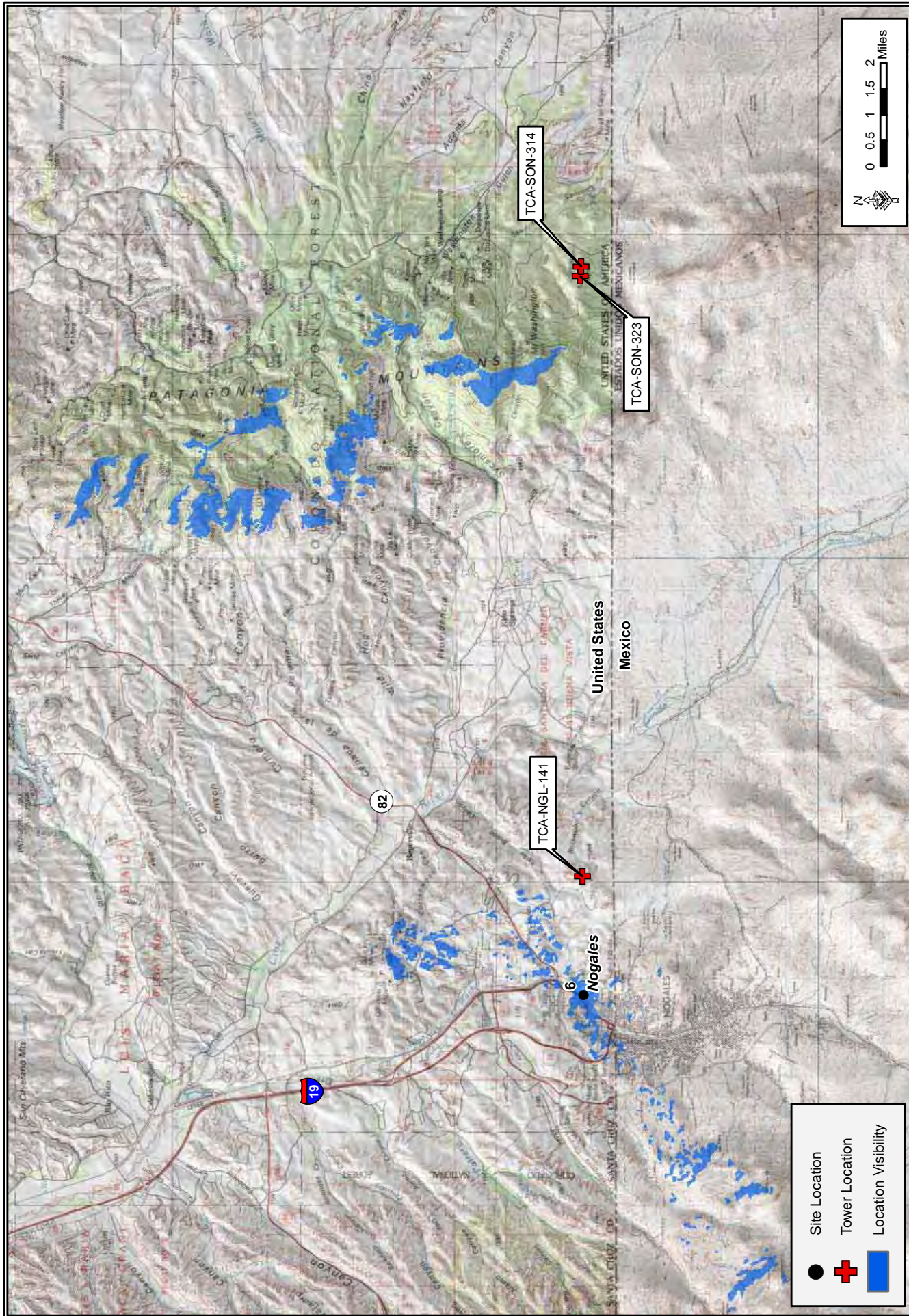
Viewshed Analysis of Location 1



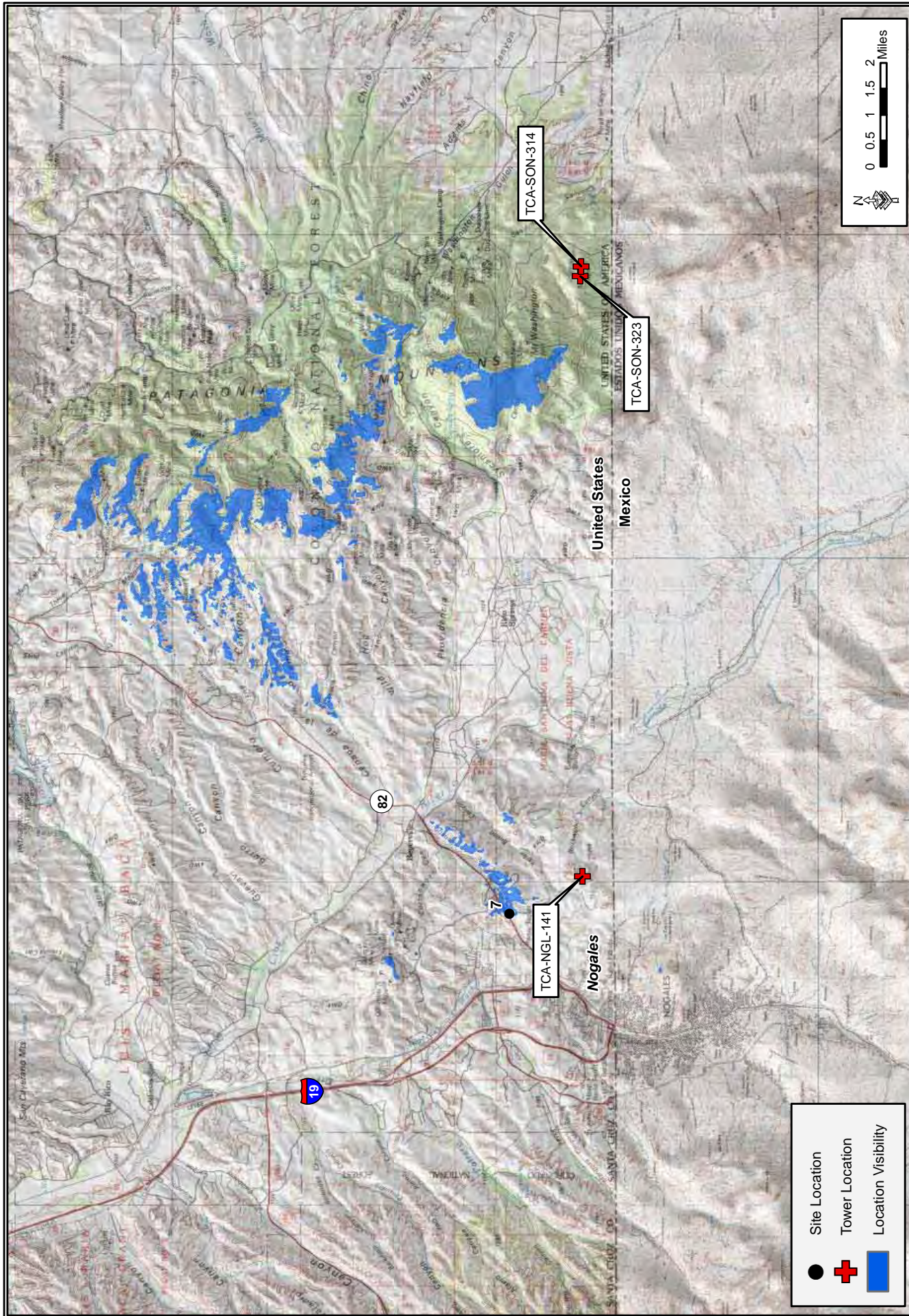
Viewshed Analysis of Location 3



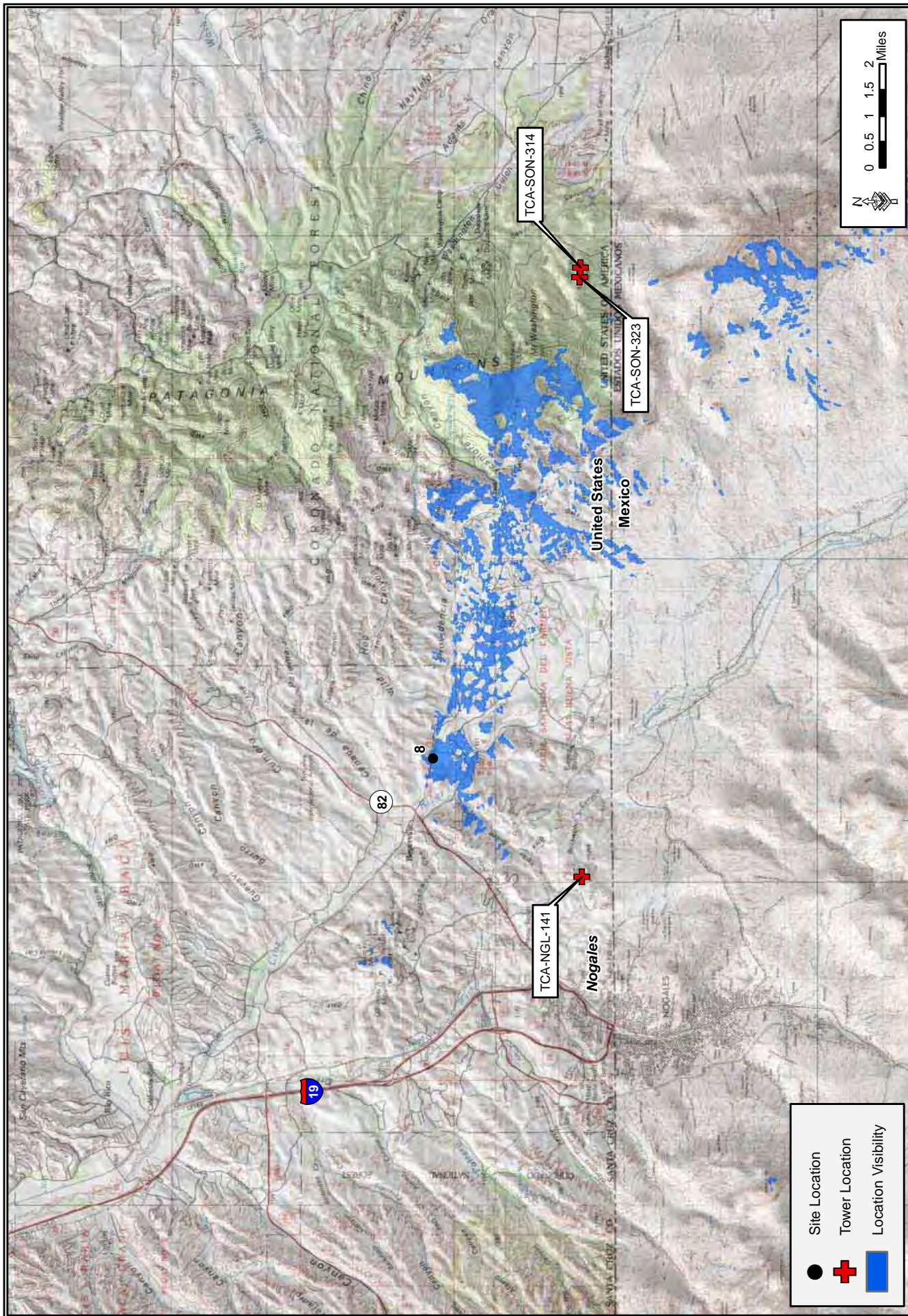
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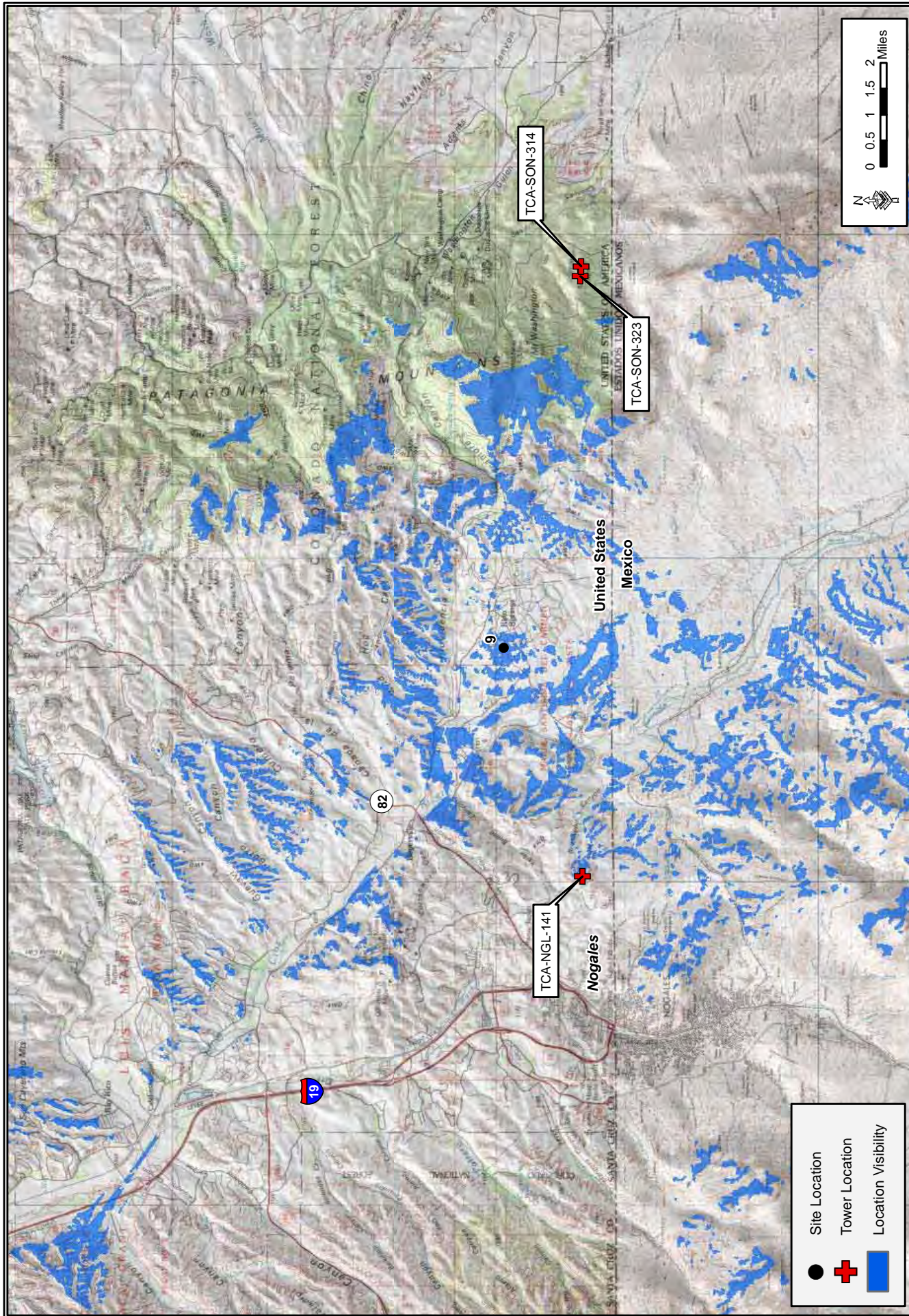
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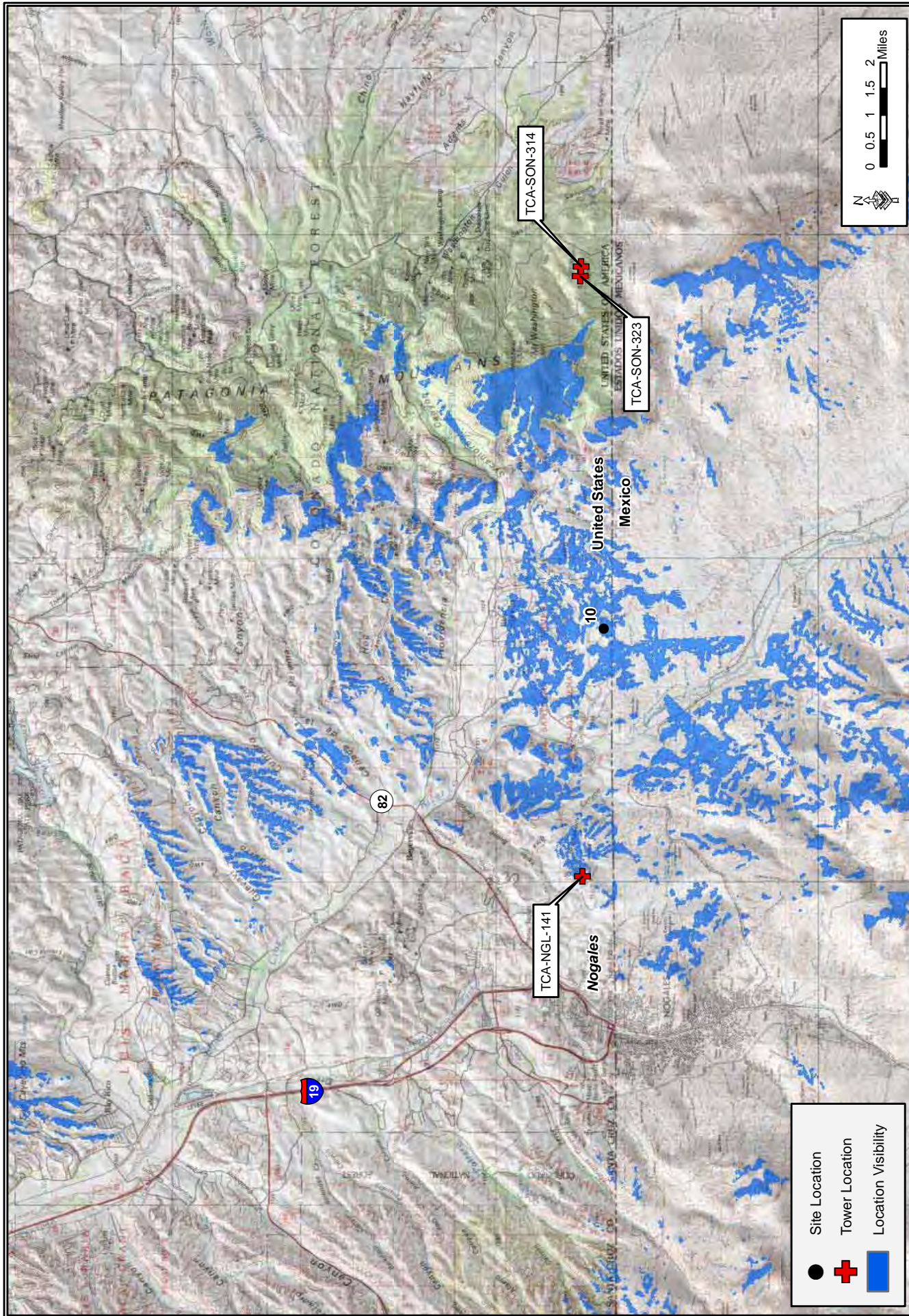
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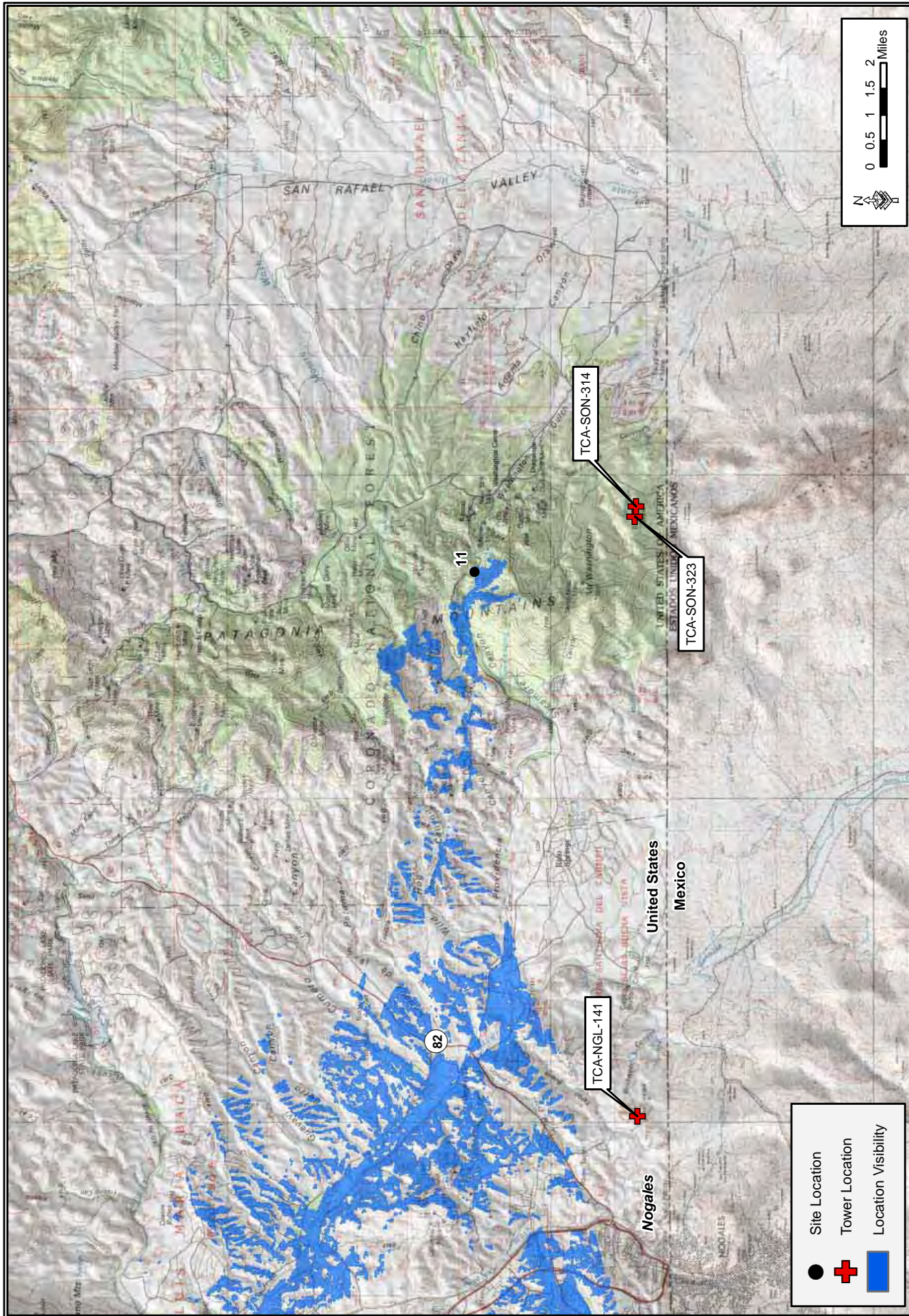
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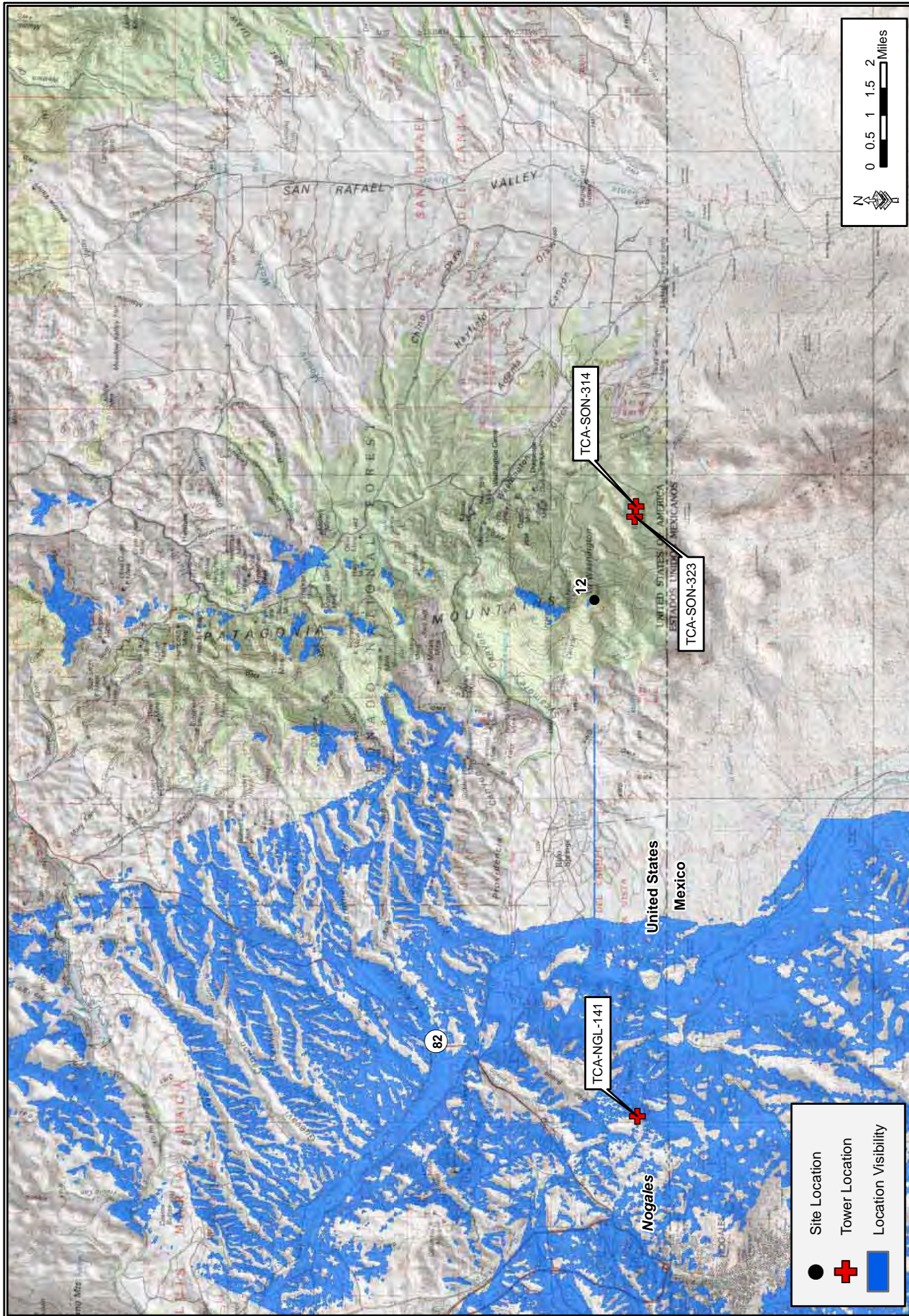
Viewshed Analysis of Location 9



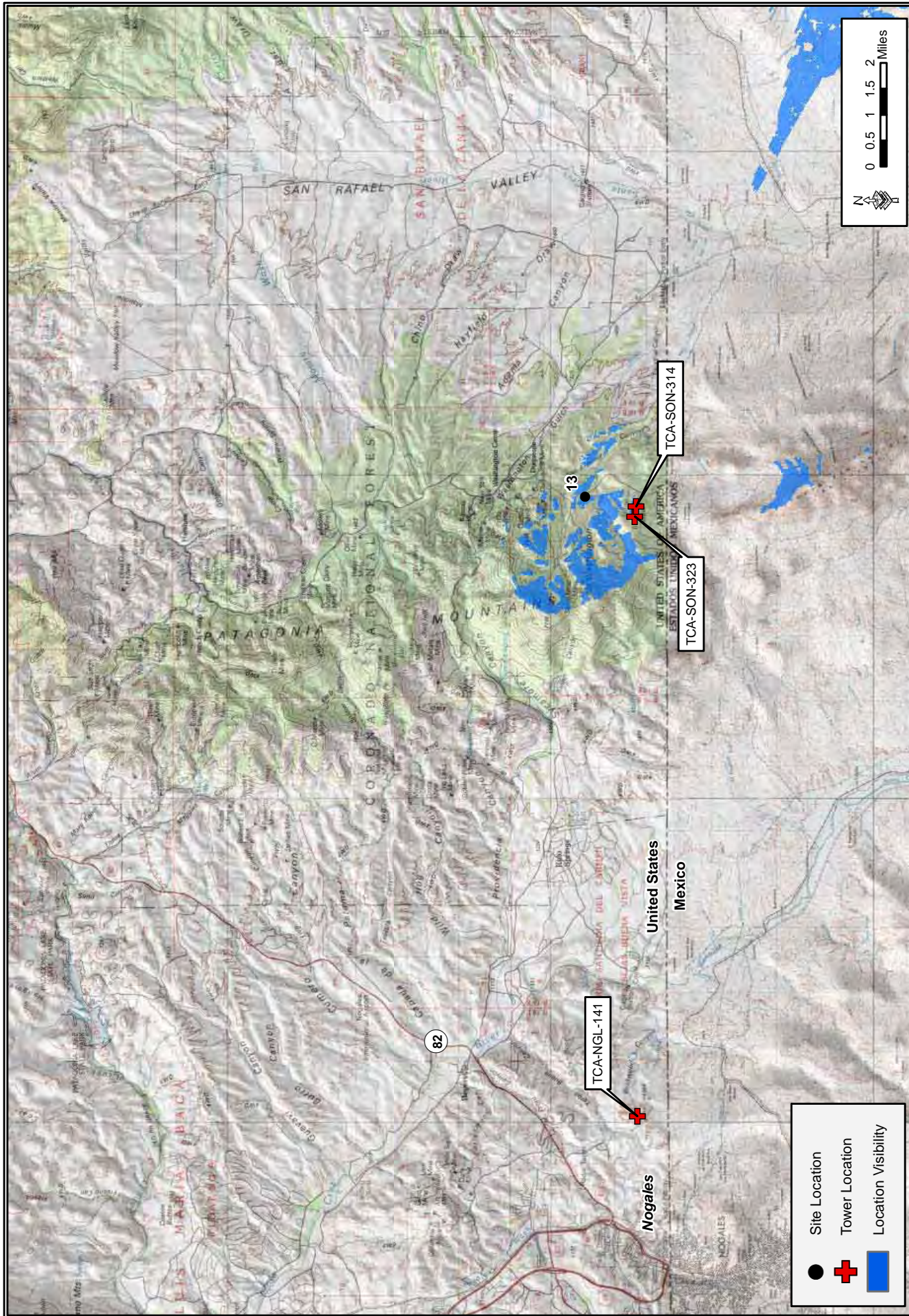
Viewshed Analysis of Location 10



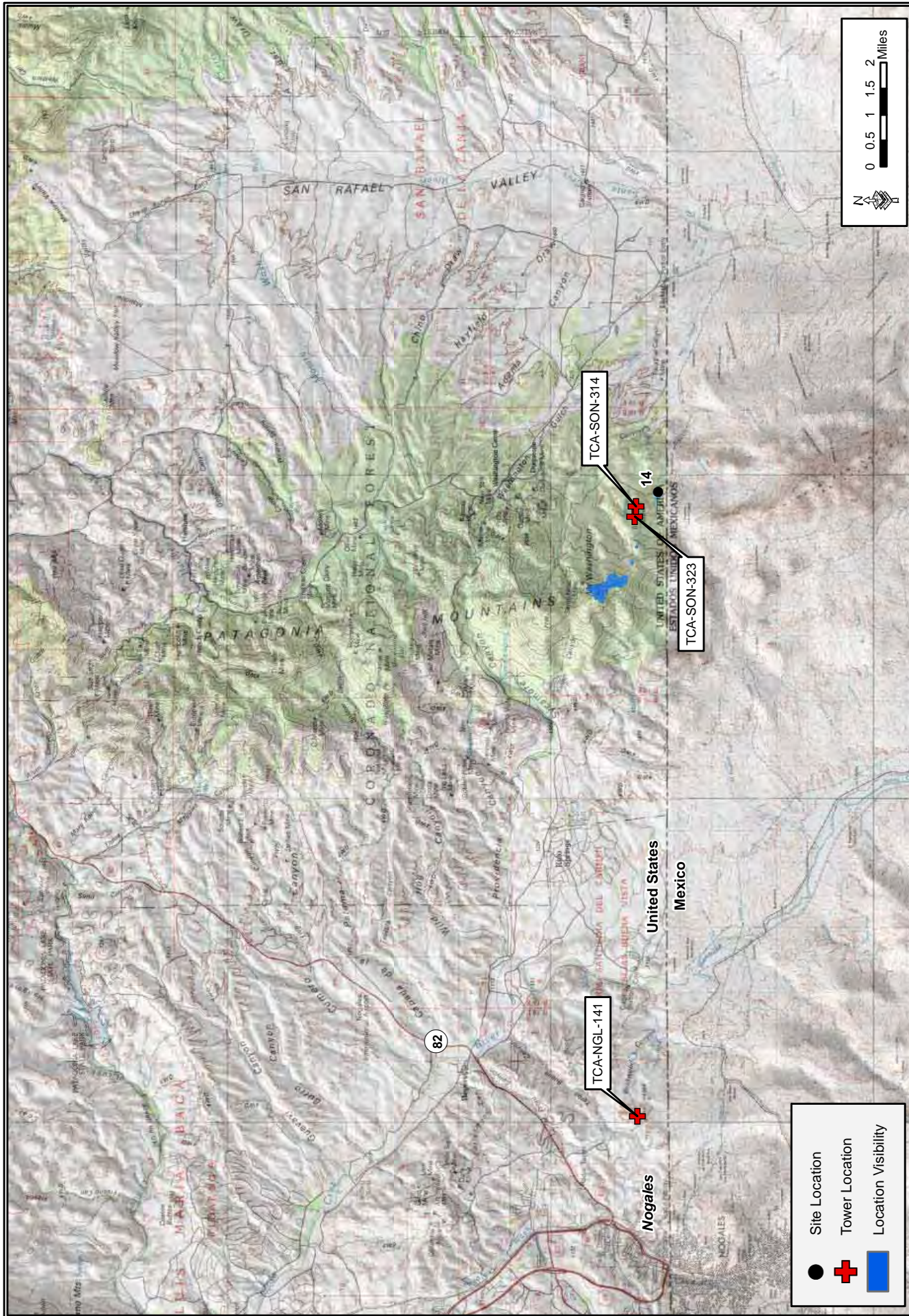
Viewshed Analysis of Location 11



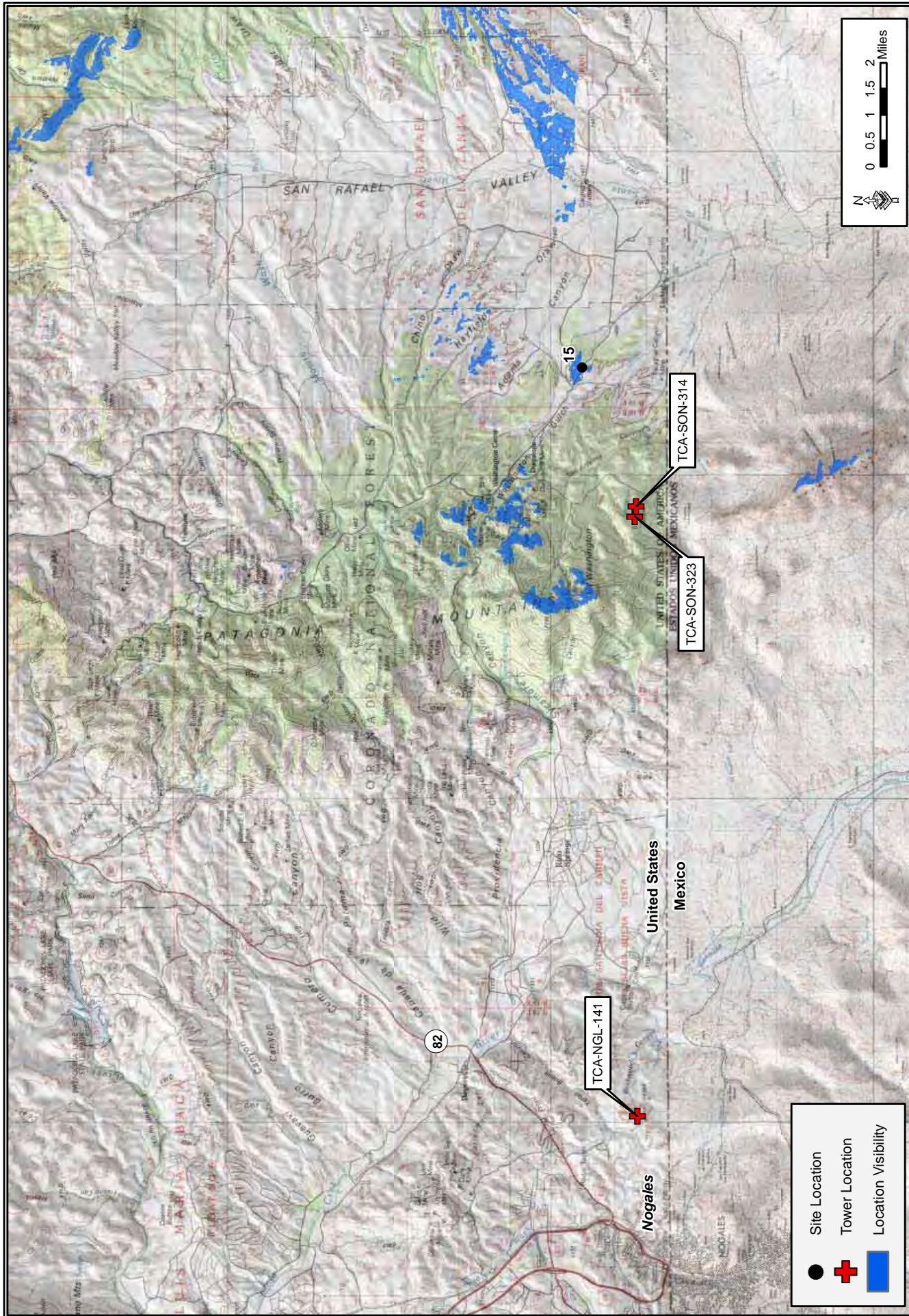
Viewshed Analysis of Location 12



Viewshed Analysis of Location 13



Viewshed Analysis of Location 14



Viewshed Analysis of Location 15

