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EI-18904

May 9, 2012

Dave Navecky
Surface Transportation Board
395 E Street, SW
Washington, DC 20423-0001
ATTN: Docket No. FD 35554

RE: Request for information regarding natural resources near proposed Eagle Pass Railroad, Eagle Pass, Maverick County, Texas

Dear Mr. Navecky:

Texas Parks and Wildlife Department (TPWD) received your request for information regarding natural resources that may be affected by the construction and operation of the proposed project referenced above. The Surface Transportation Board (STB) Office of Environmental Analysis (OEA) will prepare an environmental document for the project to evaluate the potential environmental impacts of the project.

Project Description

Eagle Pass Railroad, LLC (EPRR) intends to file a petition with the STB for the authority to construct and operate a new rail line in Maverick County, Texas. The proposed rail line would be constructed between points near Eagle Pass, Texas and Piedras Negras, Mexico. Five "build" alternatives including the EPRR Preferred Alternative have been developed. EPRR's Preferred Alternative would route the rail line north of the Eagle Pass city center and cross U.S. Highway 277 and would traverse a new international rail bridge to be built by EPRR across the Rio Grande.

The proposed rail line would be used to transport coal from the Dos Republicas Mine to a coal-fired power plant in Mexico. Approximately two trains per day (one loaded and one empty) would use the line; the line would operate seven days per week.

TPWD Review Methods

As part of the review, TPWD searched the Texas Natural Diversity Database (TXNDD) of known records for species and rare resources within 1.5 miles of the project site. TXNDD Element Occurrence (EOID) records found within a 1.5 mile radius provide a best estimate of the species and other rare resources that have potential to occur on a project site. **A lack of site-specific records should not be interpreted as presence/absence data, but instead that little information is available to date.**

Rare and Protected Species

Based on the project as presented, the TPWD annotated county list of rare species for Maverick County, and presently known TXNDD records for the general project area, the following listed species could be impacted by proposed project activities *if suitable habitat is present*.

Federal and State Listed Endangered

- * Jaguarundi (*Herpailurus yaguarondi*)
- * Ocelot (*Leopardus pardalis*)

Federal Candidate for Listing

Sprague's Pipit (*Anthus spragueii*)

Federal and State Listed Threatened (Federal by Similarity of Appearance)

Black bear (*Ursus americanus*)

State Listed Threatened

- Peregrine Falcon (*Falco peregrinus*) Federally Delisted
- Blue sucker (*Cycleptus elongatus*)
- Proserpine shiner (*Cyprinella proserpina*)
- Rio Grande darter (*Etheostoma grahami*)
- White-nosed coati (*Nasua narica*)
- * Reticulate collared lizard (*Crotaphytus reticulatus*)
- Texas horned lizard (*Phrynosoma cornutum*)
- * Texas indigo snake (*Drymarchon melanurus erebenmus*)
- Texas tortoise (*Gopherus berlandieri*)

Species of Concern

- Audubon's Oriole (*Icterus graduacauda audubonii*)
- Baird's Sparrow (*Ammodramus bairdii*)
- Mexican Hooded Oriole (*Icterus cucullatus cucullatus*)
- Mountain Plover (*Charadrius montanus*)
- Sennett's Hooded Oriole (*Icterus cucullatus sennetti*)
- Western Burrowing Owl (*Athene cunicularia hypugaea*)
- Headwater catfish (*Ictalurus lupus*)
- Rio Grande shiner (*Notropis jemezianus*)
- Cave myotis bat (*Myotis veleifer*)
- Ghost-faced bat (*Mormoops megalophylla*)
- Yuma myotis bat (*Myotis yumanensis*)
- Spot-tailed earless lizard (*Holbrookia lacerata*)
- Silver wild-mercury (*Argythamnia argyrea*)
- Texas trumpets (*Acleisanthes crassifolia*)

Special Features and Natural Communities

* Cedar Elm-Sugarberry Series (*Ulmus crassifolia*-*Celtis laevigata* Series)

Data from the TXNDD has documented occurrences of the species shown above, preceded by an asterisk, on and/or possibly within 1.5 miles of the project sites. Element occurrence records and a map are included for your planning reference.

Please be aware that the TXNDD is intended to assist users in avoiding harm to rare species or significant ecological features. Absence of information in an area does not imply that a species is absent from that area. Given the small proportion of public versus private land in Texas, the TXNDD does not include a representative inventory of rare resources in the state. Although it is based on the best data available to TPWD regarding rare species, the data from the TXNDD do not provide a definitive statement as to the presences, absence or condition of special species, natural communities, or other significant features within your project area. These data are not inclusive and **cannot be used as presence/absence data**. They represent species that could potentially be in your project area. This information cannot be substituted for on-the-ground surveys.

Please review the most current TPWD county list for Maverick County, as other rare species could be present depending upon habitat availability. These lists are available online at <http://www.tpwd.state.tx.us/gis/ris/es/default.aspx>

For the USFWS rare species lists please visit:
http://eco.fws.gov/tess_public/serviet/gov.doi.tess_public.serviets.EntryPage.

Federal Regulations

Endangered Species Act (ESA)

Federally-listed animal species and their habitat are protected from “take” on any property by the ESA. Take of a federally-listed species can be allowed if it is “incidental” to an otherwise lawful activity and must be permitted in accordance with Section 7 or 10 of the ESA. Federally-listed plants are not protected from take except on lands under federal/state jurisdiction or for which a federal/state nexus (i.e., permits or funding) exists. Any take of a federally listed species/ or its habitat without the required take permit (or allowance) from the USFWS is a violation of the ESA.

Recommendation: Ocelot and jaguarundi occurrences have been documented along Elm Creek in the vicinity of several of the alternatives developed. TPWD recommends that potential impacts to potential ocelot and jaguarundi habitat (i.e., dense brush) be considered when evaluating rail line

route alternatives. Both ocelots and jaguarundis may use areas of dense brush as travel corridors to travel across the landscape, particularly when moving between upland areas and the Rio Grande riparian corridor. Each alternative considered should evaluate the occurrence of suitable ocelot and jaguarundi habitat. Additionally, coordination with the USFWS is recommended for potential impacts to federally listed species.

Migratory Bird Treaty Act (MBTA)

The Migratory Bird Treaty Act (MBTA) implicitly prohibits intentional *and unintentional* take of migratory birds, including their nests and eggs, except as permitted by the U.S. Fish and Wildlife Service (USFWS). Although not documented in the TXNDD, many bird species that are protected by the MBTA are known to reside in or migrate through the proposed project areas.

The majority of the project area encompassing all alternatives routes consists of a mixture of native brush and grasses and agricultural land. Suitable foraging, loafing and nesting sites for birds protected by the MBTA occur in the project area.

Recommendation: Regardless of the alternative selected, during construction of the rail line, TPWD recommends scheduling any necessary vegetation clearing or trampling outside of the April 1-July 15 migratory bird nesting season in order to fully comply with the MBTA. Contractors should be made aware of the potential of encountering migratory birds on the proposed project site and be instructed to avoid negatively impacting them. If vegetation clearing must occur during the nesting season, a nest survey should be conducted by a qualified biologist prior to commencing work. If active nests are observed, TPWD recommends a 150-foot buffer of vegetation remain around the nests until the young have fledged or the nest is abandoned. More information regarding the MBTA is available from the U.S. Fish and Wildlife Service Southwest Regional Office (Region 2) at (505) 248-6879.

Clean Water Act

The Clean Water Act (CWA) provides for the federal protection and regulation of surface water quality. The CWA regulates point and nonpoint sources of water pollution, including the placement of “fill” in jurisdictional waters.

Recommendation: Regardless of the build alternative selected, segments of the proposed rail would cross natural drainages that may be considered water of the U.S. and subject to U.S. Army Corps of Engineers (USACE) permitting. In addition to avoiding and minimizing impacts to aquatic resources to the maximum extent practicable, TPWD recommends

coordinating with the USACE and resource agencies to determine the presences of jurisdictional waters and appropriate permitting requirements. The USACE Regulatory Branch (Fort Worth District) can be reached at 817-886-1731 for more information.

State regulations

Parks and Wildlife Code

State law prohibits any take (incidental or otherwise) of state-listed species. Laws and regulations pertaining to state-listed endangered or threatened animals are contained in Chapters 67 and 68 of the Texas Parks and Wildlife (TPW) Code; laws pertaining to endangered or threatened plants are contained in Chapter 88 of the TPW Code.

Due to the diversity of habitat types available in the project area (*e.g.*, upland brush, riparian corridors), suitable habitat for a number of state-listed species may occur in the general project area.

Recommendation: TPWD recommends the availability of suitable habitat for state-listed species be evaluated for each of the alternatives in the environmental document prepared for the project. Potential occurrence, impacts, and proposed avoidance strategies, if necessary, should also be included in the document.

Several state-listed reptiles have been documented in or near the project area intersecting some of the alternative rail routes. TPWD has concerns regarding the physical and behavioral barriers created by railroad tracks that result in fragmenting habitat. Specifically, TPWD is concerned with direct impacts to the state-threatened Texas tortoise (*Gopherus berlandieri*) as they can become trapped between rail lines. Potential impacts regarding tortoises and other small animals consist primarily of becoming trapped between rail lines where they are susceptible to predation and physiological stresses including: 1) the core body temperature reaching the critical thermal maximum (the point at which tortoises are incapable of coordinated locomotion), 2) dehydration and 3) death.

Recommendation: TPWD recommends surveying the project area that encompasses all alternatives to determine the availability of suitable tortoise habitat and to determine the presence/absence of tortoises in or near the project area. However, due to the large project area and because the Texas Tortoise is crepuscular (*i.e.*, most active at twilight) and hibernates (or more correctly “brumates”) generally from October through March or April, determining their actual presence in the area with any degree of confidence

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could be extremely difficult and expensive even if surveys were conducted during the spring or early summer when tortoises are most active.

A more cost effective mitigative measure to avoid potential tortoise entrapment impacts could include installing escape devices at intervals along the tracks or barriers at at-grade crossings. Possible designs include installing a cattle-guard type device between the tracks or installing a pit-fall into a culvert under the tracks to prevent tortoises from becoming trapped. It is the opinion of TPWD staff that at-grade barriers could be designed and manufactured from flexible material and engineered to avoid potential conflicts (*i.e.*, entanglements or snagging) with hoses hanging from rail cars.

Additionally, installing culverts under the rail line through ballast material in natural topographic depressions crossed by the rail rather than filling low areas in with ballast material will provide wildlife with the ability to continue moving across the landscape.

TPWD appreciates the opportunity to provide comments and recommendations for this project. Please contact me at (361) 825-3240 if you have any questions or we may be of further assistance.

Sincerely,

A handwritten signature in dark ink, appearing to read "Russell Hooten", with a stylized flourish at the end.

Russell Hooten
Wildlife Habitat Assessment Program
Wildlife Division

/rh 16964

Attachments

NOTE FROM OEA: The Board's Office of Environmental Analysis (OEA) has omitted the data from this figure to avoid disclosing sensitive site-specific locations of rare resources in the Eagle Pass project area.

**Rare resources near
Eagle Pass project site,
Maverick County, Texas**

- Eagle Pass RR Alternatives
- 1.5-mile buffer Eagle Pass RR Alt.
- ▨ Element Occurrence ID#
- Highways

0 0.5 1 2 3 4 Miles



Code Key for Printouts from Texas Parks and Wildlife Department Texas Natural Diversity Database (TXNDD)

This information is for your assistance only; due to continuing data updates, vulnerability of private land to trespass and of species to disturbance or collection, **please refer all requesters to our office to obtain the most current information available.** Also, please note, identification of a species in a given area does not necessarily mean the species currently exists at the point or area indicated.

LEGAL STATUS AND CONSERVATION RANKS

FEDERAL STATUS (as determined by the US Fish and Wildlife Service)

LE	Listed Endangered
LT	Listed Threatened
PE	Proposed to be listed Endangered
PT	Proposed to be listed Threatened
PDL	Proposed to be Delisted (Note: Listing status retained while proposed)
SAE, SAT	Listed Endangered on basis of Similarity of Appearance, Listed Threatened on basis of Similarity of Appearance
DL	Delisted Endangered/Threatened
C	Candidate. USFWS has substantial information on biological vulnerability and threats to support proposing to list as threatened or endangered. Data are being gathered on habitat needs and/or critical habitat designations.
C*	C, but lacking known occurrences
C**	C, but lacking known occurrences, except in captivity/cultivation
XE	Essential Experimental Population
XN	Non-essential Experimental Population
Blank	Species is not federally listed

TX PROTECTION (as determined by the Texas Parks and Wildlife Department)

E	Listed Endangered
T	Listed Threatened
Blank	Species not state-listed

GLOBAL RANK (as determined by NatureServe)

G1	Critically imperiled globally, extremely rare, typically 5 or fewer viable occurrences
G2	Imperiled globally, very rare, typically 6 to 20 viable occurrences
G3	Very rare and local throughout range or found locally in restricted range, typically 21 to 100 viable occurrences
G4	Apparently secure globally
G5	Demonstrably secure globally
GH	Of historical occurrence through its range
GU	Possibly in peril range-wide, but status uncertain
G#G#	Ranked within a range as status uncertain
GX	Apparently extinct throughout range
Q	Rank qualifier denoting taxonomic assignment is questionable
#?	Rank qualifier denoting uncertain rank
C	In captivity or cultivation only
G#T#	"G" refers to species rank; "T" refers to variety or subspecies rank

STATE (SUBNATIONAL) RANK (as determined by the Texas Parks and Wildlife Department)

S1	Critically imperiled in state, extremely rare, vulnerable to extirpation, typically 5 or fewer viable occurrences
S2	Imperiled in state, very rare, vulnerable to extirpation, typically 6 to 20 viable occurrences
S3	Rare or uncommon in state, typically 21 to 100 viable occurrences
S4	Apparently secure in State
S5	Demonstrably secure in State
S#S#	Ranked within a range as status uncertain
SH	Of historical occurrence in state and may be rediscovered
SU	Unrankable – due to lack of information or substantially conflicting information
SX	Apparently extirpated from State
SNR	Unranked – State status not yet assessed
SNA	Not applicable – species id not a suitable target for conservation activities
?	Rank qualifier denoting uncertain rank in State

ELEMENT OCCURRENCE RECORD

Element Occurrence Record (EOR) Spatial and tabular record of an area of land and/or water in which a species, natural community, or other significant feature of natural diversity is, or was, present and associated information; may be a single contiguous area or may be comprised of discrete patches or subpopulations

Occurrence # Unique number assigned to each occurrence of each element when added to the NDD

LOCATION INFORMATION

Watershed Code Eight digit numerical code determined by US Geological Survey (USGS)

Watershed Name of watershed as determined by USGS

Quadrangle Name of USGS topographical map

Directions Directions to geographic location where occurrence was observed, as described by observer or in source

SURVEY INFORMATION

First/Last Observation Date a particular occurrence was first/last observed; refers only to species occurrence as noted in source and does not imply the first/last date the species was present

Survey Date If conducted, date of survey

EO Type State rank qualifiers:

M	Migrant – species occurring regularly on migration at staging areas, or concentration along particular corridors; status refers to the transient population in the State		
B	Qualifier indicating basic rank refers to the breeding population in State		
N	Qualifier indicating basic rank refers to the non-breeding population in State		
EO Rank			
A	Excellent	AI	Excellent, Introduced
B	Good	BI	Good, Introduced
C	Marginal	CI	Marginal, Introduced
D	Poor	DI	Poor, Introduced
E	Extant/Present	EI	Extant, Introduced
H	Historical/No Field Information	HI	Historical, Introduced
X	Destroyed/Extirpated	XI	Destroyed, Introduced
O	Obscure	OI	Obscure, Introduced

EO Rank Date Latest date EO rank was determined or revised

Observed Area Acres, unless indicated otherwise

COMMENTS

Description General physical description of area and habitat where occurrence is located, including associated species, soils, geology, and surrounding land use

Comments Comments concerning the quality or condition of the element occurrence at time of survey

Protection Comments Observer comments concerning legal protection of the occurrence

Management Comments Observer comments concerning management recommendations appropriate for occurrence conservation

DATA

EO Data Biological data; may include number of individuals, vigor, flowering/fruitlet data, nest success, behaviors observed, or unusual characteristic, etc.

SITE

Site Name Title given to site by surveyor

MANAGED AREA INFORMATION

Managed Area Name Place name or (on EOR printout) name of area when the EO is located within or partially within an area identified for conservation, such as State or Federal lands, nature preserves, parks, etc.

Alias Additional names the property is known by

Acres Total acreage of property, including non-contiguous tracts

Manager Contact name, address, and telephone number for area or nearest area land steward

Please use one of the following citations to credit the source for the printout information:

Texas Natural Diversity Database. [year of printouts]. Wildlife Diversity Program of Texas Parks & Wildlife Department. [day month year of printouts].

Texas Natural Diversity Database. [year of printouts]. Element occurrence printouts for [scientific name] *records # [occurrence number(s)]. Wildlife Diversity Program of Texas Parks & Wildlife Department. [day month year of printouts]. *Use of record #'s is optional.

Element Occurrence Record

<u>Scientific Name:</u>	<i>Drymarchon melanurus erebennus</i>	<u>Occurrence #:</u>	18	<u>Eo Id:</u>	7746
<u>Common Name:</u>	Texas Indigo Snake	<u>TX Protection Status:</u>	T	<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G4	<u>State Rank:</u>	S4	<u>Federal Status:</u>	

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>
13080002	San Ambrosia-Santa Isabel
13040212	Amistad Reservoir

<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-F4	Eagle Pass East	TX
		28100-F5	Eagle Pass West	TX
		28100-G4	Deadmans Hill	TX
		28100-G5	Quemado SE	TX

Directions:

EAGLE PASS

Survey Information:

<u>First Observation:</u>	<u>Survey Date:</u>	<u>Last Observation:</u>	1972-04-20
<u>Eo Type:</u>	<u>EO Rank:</u>	<u>EO Rank Date:</u>	
<u>Observed Area (acres):</u>	<u>Estimated Representation Accuracy:</u>		

Comments:

General
Description:

Comments:

Protection
Comments:

Management
Comments:

Data:

EO Data:

Managed Area:

<u>Managed Area Name:</u>	<u>Managed Area Type:</u>
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Element Occurrence Record

Reference:

Full Citation:

ELLIOTT, LEE. 1994. MEMORANDUM TO DORINDA SULLIVAN DATED DECEMBER 2, 1994 CONCERNING TEXAS A&M-KINGSVILLE VERTEBRATE SPECIMENS CATALOGUE.

Specimen:

TEXAS A & M UNIVERSITY-KINGSVILLE--VERTEBRATE COLLECTION. 1972. UNKNOWN COLLECTOR, SPECIMEN # 3113 AL. 20 APRIL 1972.

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>

Element Occurrence Record

<u>Scientific Name:</u>	<i>Herpailurus yaguarondi</i>	<u>Occurrence #:</u>	4	<u>Eo Id:</u>	7180
<u>Common Name:</u>	Jaguarundi	<u>TX Protection Status:</u>	E	<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G4	<u>State Rank:</u>	S1	<u>Federal Status:</u>	LE

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>
13080002	San Ambrosia-Santa Isabel

<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-G4	Deadmans Hill	TX

Directions:

FIVE MILES NORTHEAST OF EAGLE PASS ABOUT ONE MILE FROM ELM CREEK

Survey Information:

<u>First Observation:</u>	<u>Survey Date:</u>	<u>Last Observation:</u>	1993-07
<u>Eo Type:</u>	<u>EO Rank:</u>	<u>EO Rank Date:</u>	
<u>Observed Area (acres):</u>	<u>Estimated Representation Accuracy:</u>		

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: TWO JAGUARUNDI WITH TWO KITTENS

Managed Area:

<u>Managed Area Name:</u>	<u>Managed Area Type:</u>
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Reference:

Full Citation:

FRYE, ROY G. 1994. A REPORT ON ENDANGERED FELINES IN MAVERICK COUNTY AND THEIR OCCURRENCE AT THE EAGLE PASS MINE SITE. SUBMITTED MARCH 28, 1994 BY TPWD.

Element Occurrence Record

Specimen:

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>

Element Occurrence Record

<u>Scientific Name:</u>	<i>Herpailurus yaguarondi</i>	<u>Occurrence #:</u>	5	<u>Eo Id:</u>	5834
<u>Common Name:</u>	Jaguarundi	<u>TX Protection Status:</u>	E	<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G4	<u>State Rank:</u>	S1	<u>Federal Status:</u>	LE

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>
13080002	San Ambrosia-Santa Isabel

<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-G4	Deadmans Hill	TX

Directions:

AT FACILITY OF KVAW-TV STATION, EAGLE PASS

Survey Information:

<u>First Observation:</u>	<u>Survey Date:</u>	<u>Last Observation:</u>	1994-02-08
<u>Eo Type:</u>	<u>EO Rank:</u>	<u>EO Rank Date:</u>	
<u>Observed Area (acres):</u>	<u>Estimated Representation Accuracy:</u>		

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: JAGUARUNDI

Managed Area:

<u>Managed Area Name:</u>	<u>Managed Area Type:</u>
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Reference:

Full Citation:

FRYE, ROY G. 1994. A REPORT ON ENDANGERED FELINES IN MAVERICK COUNTY AND THEIR OCCURRENCE AT THE EAGLE PASS MINE SITE. SUBMITTED MARCH 28, 1994 BY TPWD.

Element Occurrence Record

Specimen:

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>

Element Occurrence Record

<u>Scientific Name:</u>	<i>Ulmus crassifolia-celtis laevigata series</i>	<u>Occurrence #:</u>	12	<u>Eo Id:</u>	3591
<u>Common Name:</u>	Cedar Elm-sugarberry Series	<u>TX Protection Status:</u>		<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G4	<u>State Rank:</u>	S4	<u>Federal Status:</u>	

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>
13040212	Amistad Reservoir
13080002	San Ambrosia-Santa Isabel
12110104	Turkey

<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-G4	Deadmans Hill	TX
		28100-G3	Indian Tank	TX
		28100-F5	Eagle Pass West	TX
		28100-F4	Eagle Pass East	TX
		28100-G5	Quemado SE	TX

Directions:

2.1 MILES NORTH OF JUNCTION OF 277 WITH 1588 TO CROSSING OF ELM CREEK, THEN WEST 2.4 MILES

Survey Information:

<u>First Observation:</u>	<u>Survey Date:</u>	<u>Last Observation:</u>
<u>Eo Type:</u>	<u>EO Rank:</u>	<u>EO Rank Date:</u>
<u>Observed Area (acres):</u>	<u>Estimated Representation Accuracy:</u>	

Comments:

<u>General Description:</u>	BERLANDIER ASH-SUGARBERRY-CEDAR ELM-MESQUITE-BRASIL-MIXED BUSH; NARROW RIPARIAN STRIP
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Comments:

Protection
Comments:

Management
Comments:

Data:

EO Data:

Managed Area:

Element Occurrence Record

Managed Area Name:

Managed Area Type:

Reference:

Full Citation:

ESPEY, HUSTON AND ASSOCIATES. 1981. BASELINE ECOLOGICAL REPORT FOR THE MAVERICK COUNTY COAL PROJECT. ESPEY, HUSTON AND ASSOCIATES, P.O. BOX 519, AUSTIN, TEXAS.

Specimen:

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>

Element Occurrence Record

<u>Scientific Name:</u>	<i>Herpailurus yaguarondi</i>	<u>Occurrence #:</u>	6	<u>Eo Id:</u>	2176
<u>Common Name:</u>	Jaguarundi	<u>TX Protection Status:</u>	E	<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G4	<u>State Rank:</u>	S1	<u>Federal Status:</u>	LE

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>			
13080002	San Ambrosia-Santa Isabel			
<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-G4	Deadmans Hill	TX

Directions:

WITHIN AND NEAR THE MAVERICK COUNTY COAL PROJECT STUDY AREA (MCCP); ALSO KNOWN AS PROPOSED DOS REPUBLICAS MINE AND EAGLE PASS MINE

Survey Information:

<u>First Observation:</u>	1980	<u>Survey Date:</u>		<u>Last Observation:</u>	1981-06-21
<u>Eo Type:</u>		<u>EO Rank:</u>		<u>EO Rank Date:</u>	
<u>Observed Area (acres):</u>		<u>Estimated Representation Accuracy:</u>			

Comments:

General
Description:

Comments:

Protection
Comments:

Management
Comments:

Data:

EO Data: IN 1980, JAGUARUNDI WITH TWO KITTENS NEAR THE MCCP STUDY AREA; IN 1981, JAGUARUNDI ON ROAD WITHIN THE MCCP STUDY AREA

Managed Area:

<u>Managed Area Name:</u>	<u>Managed Area Type:</u>
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Reference:

Element Occurrence Record

Full Citation:

FRYE, ROY G. 1994. A REPORT ON ENDANGERED FELINES IN MAVERICK COUNTY AND THEIR OCCURRENCE AT THE EAGLE PASS MINE SITE. SUBMITTED MARCH 28, 1994 BY TPWD.

Specimen:

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>

Element Occurrence Record

<u>Scientific Name:</u>	<i>Leopardus pardalis</i>	<u>Occurrence #:</u>	6	<u>Eo Id:</u>	874
<u>Common Name:</u>	Ocelot	<u>TX Protection Status:</u>	E	<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G4	<u>State Rank:</u>	S1	<u>Federal Status:</u>	LE

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>
13080002	San Ambrosia-Santa Isabel

<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-G4	Deadmans Hill	TX

Directions:

5 MILES NORTHEAST OF EAGLE PASS ABOUT ONE MILE FROM ELM CREEK

Survey Information:

<u>First Observation:</u>	<u>Survey Date:</u>	<u>Last Observation:</u>	1993-09
<u>Eo Type:</u>	<u>EO Rank:</u>	<u>EO Rank Date:</u>	
<u>Observed Area (acres):</u>	<u>Estimated Representation Accuracy:</u>		

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: ONE OCELOT

Managed Area:

<u>Managed Area Name:</u>	<u>Managed Area Type:</u>
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Reference:

Full Citation:

FRYE, ROY G. 1994. A REPORT ON ENDANGERED FELINES IN MAVERICK COUNTY AND THEIR OCCURRENCE AT THE EAGLE PASS MINE SITE. SUBMITTED MARCH 28, 1994 BY TPWD.

Element Occurrence Record

Specimen:

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>

Element Occurrence Record

<u>Scientific Name:</u>	<i>Leopardus pardalis</i>	<u>Occurrence #:</u>	7	<u>Eo Id:</u>	1677
<u>Common Name:</u>	Ocelot	<u>TX Protection Status:</u>	E	<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G4	<u>State Rank:</u>	S1	<u>Federal Status:</u>	LE

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>
13040212	Amistad Reservoir

<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-G4	Deadmans Hill	TX
		28100-G5	Quemado SE	TX

Directions:

ON ELM CREEK 0.5 MILE EAST OF HIGHWAY 277

Survey Information:

<u>First Observation:</u>	<u>Survey Date:</u>	<u>Last Observation:</u>	1993-10-17
<u>Eo Type:</u>	<u>EO Rank:</u>	<u>EO Rank Date:</u>	
<u>Observed Area (acres):</u>	<u>Estimated Representation Accuracy:</u>		

Comments:

General
Description:

Comments:

Protection
Comments:

Management
Comments:

Data:

EO Data: ONE OCELOT

Managed Area:

<u>Managed Area Name:</u>	<u>Managed Area Type:</u>
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Reference:

Full Citation:

FRYE, ROY G. 1994. A REPORT ON ENDANGERED FELINES IN MAVERICK COUNTY AND THEIR OCCURRENCE AT THE EAGLE PASS MINE SITE. SUBMITTED MARCH 28, 1994 BY TPWD.

Element Occurrence Record

Specimen:

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>

Element Occurrence Record

<u>Scientific Name:</u>	<i>Herpailurus yaguarondi</i>	<u>Occurrence #:</u>	3	<u>Eo Id:</u>	1019
<u>Common Name:</u>	Jaguarundi	<u>TX Protection Status:</u>	E	<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G4	<u>State Rank:</u>	S1	<u>Federal Status:</u>	LE

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>
13040212	Amistad Reservoir

<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-G4	Deadmans Hill	TX

Directions:

ON A TANK DAM ROAD ADJACENT TO ELM CREEK IN WESTERN MAVERICK COUNTY CA. 8 MILES NORTHEAST OF EAGLE PASS, TEXAS

Survey Information:

<u>First Observation:</u>	<u>Survey Date:</u>	<u>Last Observation:</u>	1993-07-10
<u>Eo Type:</u>	<u>EO Rank:</u>	<u>EO Rank Date:</u>	
<u>Observed Area (acres):</u>	<u>Estimated Representation Accuracy:</u>		

Comments:

General Description: TANK IS LOCATED ADJACENT TO ELM CREEK WHICH SUPPORTS DENSE PATCHES OF BRUSH AND SPOROBOLIS SP.; BRUSH CONSISTED OF HOGPLUM, WHITEBRUSH, MESQUITE, BRASIL, GRANJENO, ROOSEVELT WEED, ETC.

Comments: MORE INFORMATION IN "INTERVIEW QUESTIONS FOR CAT OBSERVERS"; OBSERVED BY MARK KAINER

Protection Comments:

Management Comments:

Data:

EO Data: CAT EMERGED FROM DENSE BRUSH, THEN TRAVELLED 60-75 FEET IN WHEEL RUT OF TANK DAM ROAD BEFORE JUMPING BACK INTO THE BRUSH

Managed Area:

<u>Managed Area Name:</u>	<u>Managed Area Type:</u>
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Reference:

Full Citation:

BLANTON, DON. 1993. PERSONAL COMMUNICATION, LETTER TO ROY FRYE OF OCTOBER 28, 1993.

Element Occurrence Record

Specimen:

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>

Element Occurrence Record

<u>Scientific Name:</u>	<i>Crotaphytus reticulatus</i>	<u>Occurrence #:</u>	50	<u>Eo Id:</u>	384
<u>Common Name:</u>	Reticulate Collared Lizard	<u>TX Protection Status:</u>	T	<u>ID Confirmed:</u>	Y
<u>Global Rank:</u>	G3	<u>State Rank:</u>	S2	<u>Federal Status:</u>	

Location Information:

<u>Watershed Code:</u>	<u>Watershed Description:</u>
13080002	San Ambrosia-Santa Isabel
13040212	Amistad Reservoir

<u>County Code:</u>	<u>County Name:</u>	<u>Mapsheet Code:</u>	<u>Mapsheet Name:</u>	<u>State:</u>
TXMAVE	Maverick	28100-F4	Eagle Pass East	TX
		28100-F5	Eagle Pass West	TX
		28100-G4	Deadmans Hill	TX
		28100-G5	Quemado SE	TX

Directions:

EAGLE PASS

Survey Information:

<u>First Observation:</u>	<u>Survey Date:</u>	<u>Last Observation:</u>	1966-04-17
<u>Eo Type:</u>	<u>EO Rank:</u>	<u>EO Rank Date:</u>	
<u>Observed Area (acres):</u>	<u>Estimated Representation Accuracy:</u>		

Comments:

General
Description:

Comments:

Protection
Comments:

Management
Comments:

Data:

EO Data:

Managed Area:

<u>Managed Area Name:</u>	<u>Managed Area Type:</u>
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Element Occurrence Record

Reference:

Full Citation:

ELLIOTT, LEE. 1994. MEMORANDUM TO DORINDA SULLIVAN DATED DECEMBER 2, 1994 CONCERNING TEXAS A&M-KINGSVILLE VERTEBRATE SPECIMENS CATALOGUE.

Specimen:

TEXAS A & M UNIVERSITY-KINGSVILLE--VERTEBRATE COLLECTION. 1966. UNKNOWN COLLECTOR, SPECIMEN # 318 AL. 17 APRIL 1966.

Associated Species:

<u>Species Name</u>	<u>Type</u>	<u>Comments</u>
