
**Vertebrates Observed or Detected on the SCE West of Devers Project Alignment,
Riverside County, California**

Pigeons and Doves

Eurasian Collared-Dove
Mourning Dove

Columbidae

Streptopelia chinensis
Zenaida macroura

Cuckoos, Roadrunners & allies

Greater Roadrunner

Cuculidae

Geococcyx californianus

Barn Owls

Barn Owl (remains)

Tytonidae

Tyto alba

Typical Owls

Burrowing Owl

Strigidae

Athene cunicularia

Goatsuckers

Common Poorwill

Caprimulgidae

Phalaenoptilus nuttallii

Hummingbirds

Anna's Hummingbird
Costa's Hummingbird

Trochilidae

Calypte anna
Calypte costae

Woodpeckers

Ladder-backed Woodpecker
Northern Flicker

Picidae

Picoides scalaris
Colaptes auratus

Tyrant Flycatchers

Say's Phoebe

Tyrannidae

Sayornis saya

Shrikes

Loggerhead Shrike

Laniidae

Lanius ludovicianus

Jays, Magpies, & Crows

Common Raven

Corvidae

Corvus corax

Larks

Horned Lark

Alaudidae

Eremophila alpestris

Swallows

Barn Swallow

Hirundinidae

Hirundo rustica

Penduline Tits & Verdin

Verdin

Remizidae

Auriparus flaviceps

Wrens

Cactus Wren

Troglodytidae

Campylorhynchus brunneicapillus

**Vertebrates Observed or Detected on the SCE West of Devers Project Alignment,
Riverside County, California**

Rock Wren
Bewick's Wren

Salpinctes obsoletus
Thryomanes bewickii

Old World Warblers & Gnatcatchers

Blue-gray Gnatcatcher (M)
Black-tailed Gnatcatcher

Sylviidae
Polioptila caerulea
Polioptila melanura

Mockingbirds, Thrashers, & allies

Northern Mockingbird
California Thrasher

Mimidae
Mimus polyglottos
Toxostoma redivivum

Starlings

European Starling

Sturnidae
Sturnus vulgaris

Wagtails and Pipits

American Pipit

Motacillidae
Anthus rubescens

Wood-warblers

Yellow-rumped Warbler (M)

Parulidae
Dendroica coronata

Emberizines

California Towhee
Brewer's Sparrow (M)
Black-throated Sparrow
Sage Sparrow
Savannah Sparrow (M)
White-crowned Sparrow (M)

Emberizidae
Melospiza crissalis
Spizella breweri
Amphispiza bilineata
Amphispiza belli
Passerculus sandwichensis
Zonotrichia leucophrys

Blackbirds

Western Meadowlark

Icteridae
Sturnella neglecta

Fringilline & Cardueline Finches

House Finch
Lesser Goldfinch

Fringillidae
Carpodacus mexicanus
Carduelis psaltria

Old World Sparrows

House Sparrow

Passeridae
Passer domesticus

MAMMALS

MAMMALIA

Rabbits and Hares

Desert Cottontail
Black-tailed Jackrabbit

Leporidae
Sylvilagus audubonii
Lepus californicus

Squirrels, Chipmunks, and Marmots

Sciuridae

**Vertebrates Observed or Detected on the SCE West of Devers Project Alignment,
Riverside County, California**

White-tailed Antelope Squirrel

*Ammospermophilus leucurus***New World Mice**

Desert Woodrat (middens)

Cricetidae*Neotoma lepida***Foxes, Wolves, and relatives**

Gray Fox (observed)

Coyote (scat)

Canidae*Urocyon cinereoargenteus**Canis latrans*

M = species observed during migration or wintering

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APPENDIX 2

PHOTOGRAPHIC EXHIBITS



Photo 1. East end of the alignment near the Devers Substation.



Photo 2. View of the alignments at the east end of the project, facing west (East of State Highway 62).



Photo 3. Representative view of the sparse Sonoran Creosote Bush Scrub habitat east of State Highway 62.



Photo 4. View of Super Creek on Whitewater Hill, a Burrowing Owl was observed in the west bank at this location.

APPENDIX F: BIOLOGICAL RESOURCES

SCE West of Devers Upgrade Desert Tortoise Survey
January 2012



Photo 5. View of Sahara Mustard (*Brassica tournefortii*) dominated habitat on wind farm on Whitewater Hill.



Photo 6. Alignment crossing Whitewater Canyon (note lines in upper part of photo). View from east edge of Whitewater Canyon looking west.



Photo 7. View from western edge of Whitewater Canyon, looking east along alignment.



Photo 8. Hilly terrain west of Whitewater Canyon.



Photo 9. View from one of the hilltops west of Whitewater Canyon, showing steep topography and I-10 to the south.



Photo 10. View looking west as alignment exits hilly terrain, east of Verbenia and the Morongo Indian Reservation.



Photo 11. Brittlebush-dominated habitat at the base of the hills, this is the area where the two Red diamond rattlesnakes were observed.

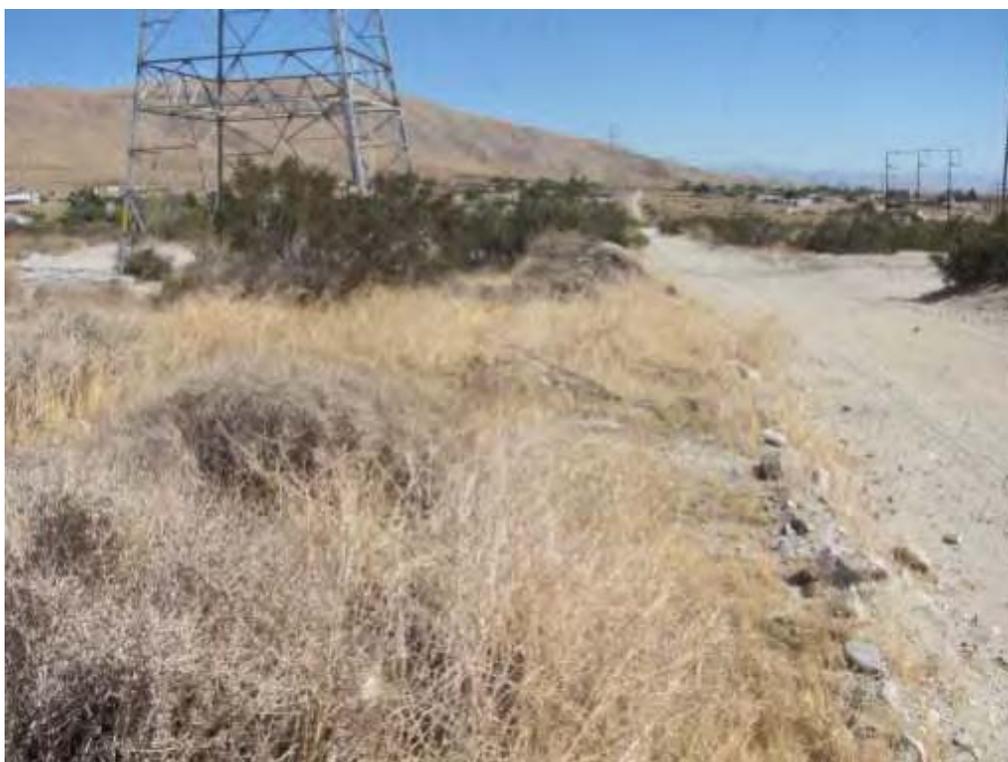


Photo 12. Alignment west of “Verbena” residential area, facing east.



Photo 13. Class 4 (possible) tortoise burrow east of the Morongo Indian Reservation, the only tortoise sign on this survey not found on the reservation.



Photo 14. Habitat view of the eastern part of the Morongo Indian Reservation.



Photo 15. Class 2 tortoise burrow with one Class 3 scat on apron. Found on the alignment on the eastern portion of the Morongo Indian Reservation.



Photo 16. Class 3 tortoise burrow with twelve Class 3 tortoise scat and one Class 4 scat found in and around the burrow. This burrow was found in a hilly area on the reservation.



Photo 17. Class 4 tortoise scat found on the eastern part of the Morongo Indian Reservation (not associated with a burrow), on the project ROW.

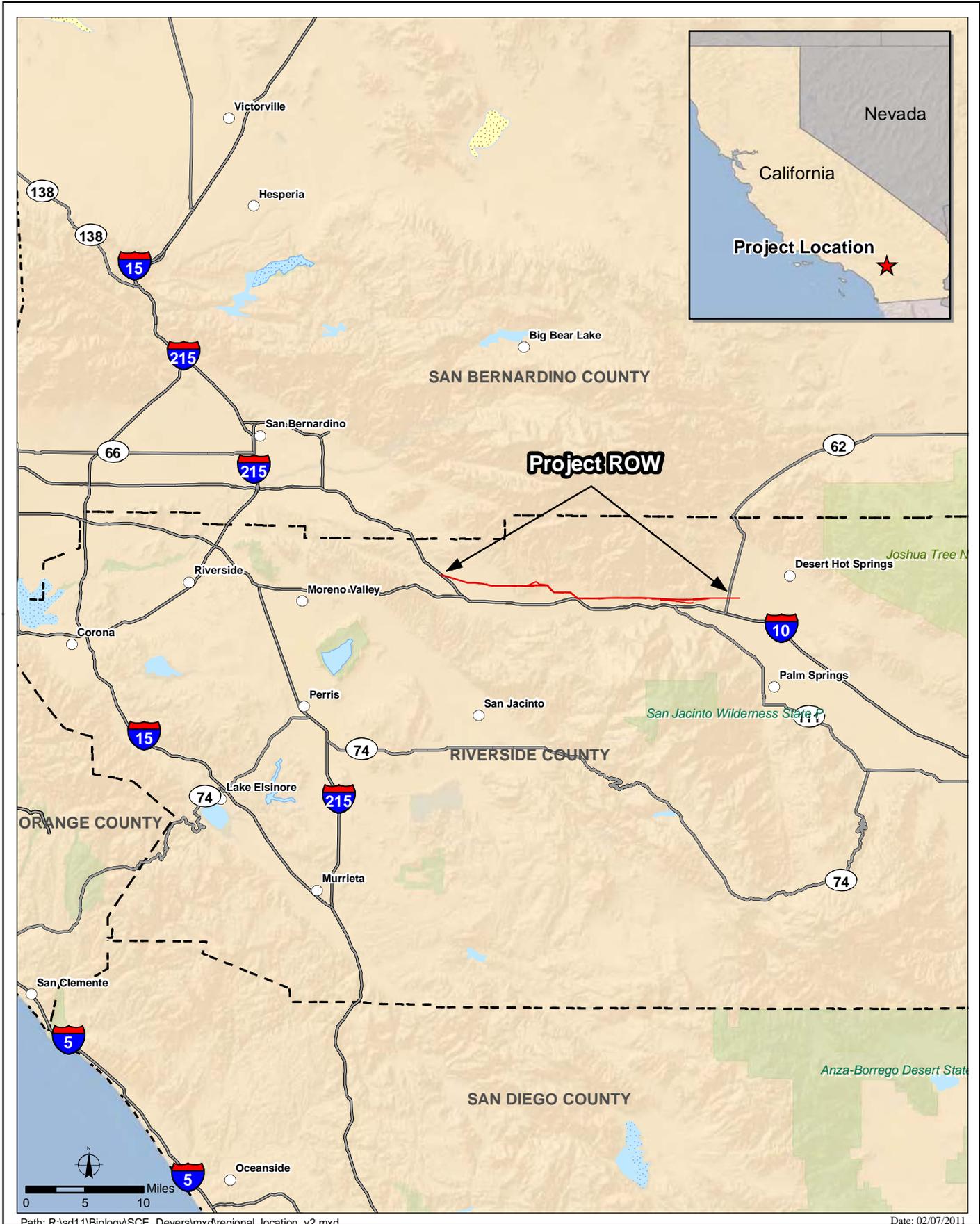


Photo 18. View of the habitat on the western end of the area surveyed for tortoise (on the Morongo Indian Reservation), facing east.

APPENDIX 3

MAP FIGURES

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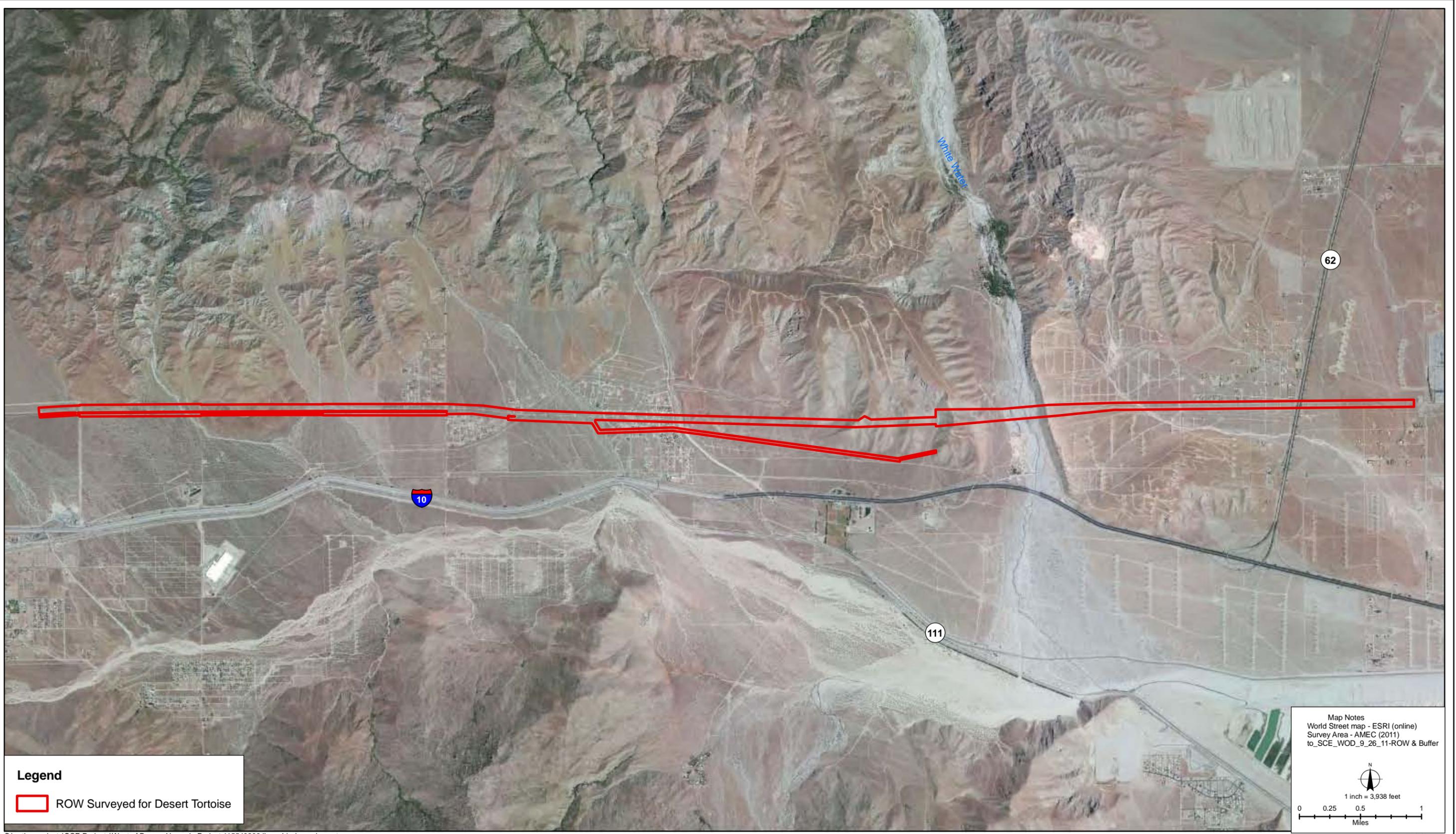
Regional Location
West of Devers Project
Southern California Edison

FIGURE

1



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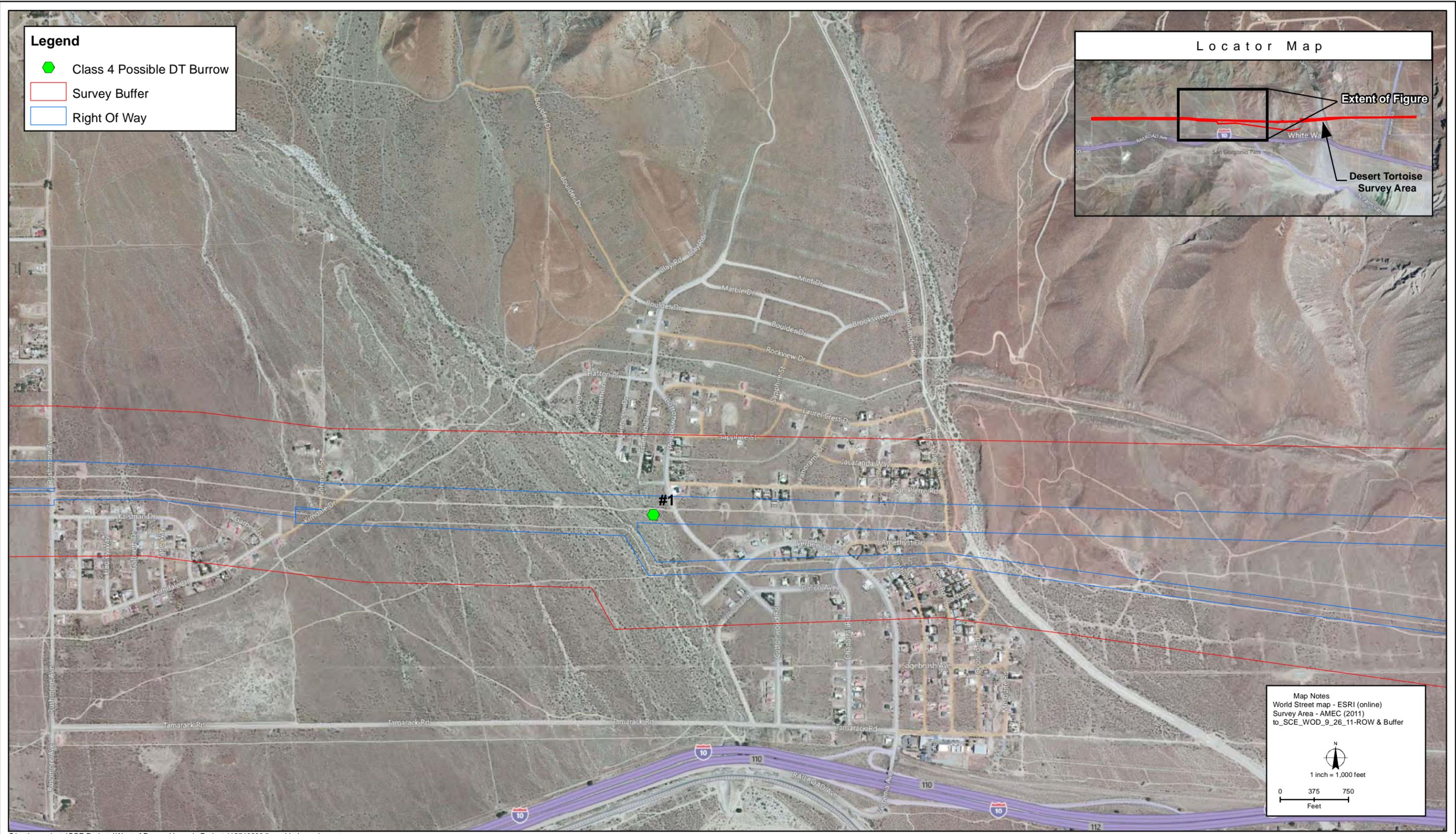


Desert Tortoise Survey Areas
West of Devers Project
Southern California Edison

FIGURE

2

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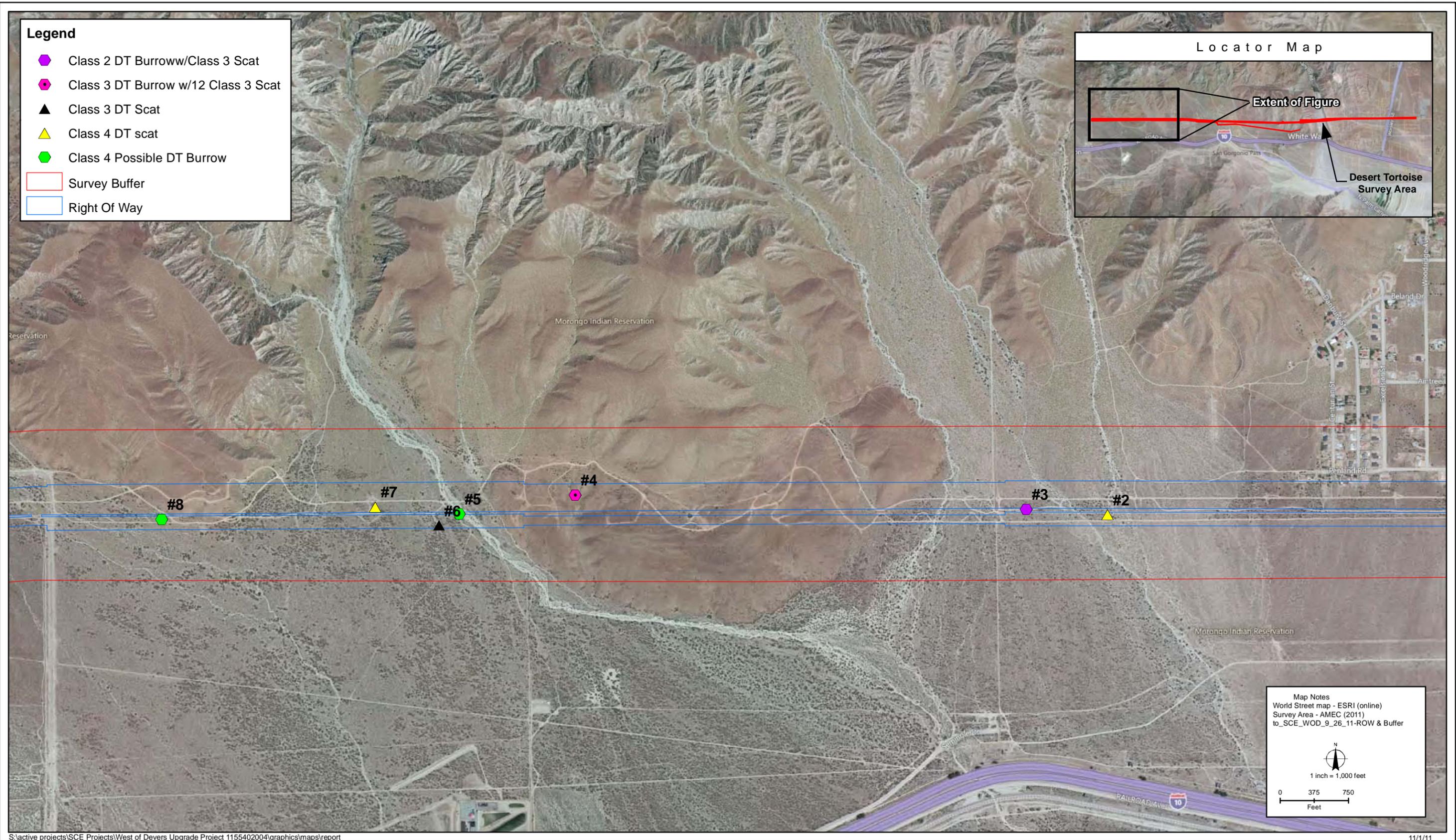
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11/11

**West of Devers Upgrade Project
Desert Tortoise Survey Results**

**FIGURE
3a**

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11/11

**West of Devers Upgrade Project
Desert Tortoise Survey Results**

**FIGURE
3b**

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APPENDIX 4

DATA SHEETS

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USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 17, 2011 Survey biologist(s): Ted Rado
(day, month, year) (name, email, and phone number)

Site description: Deer's West
(project name and size; general location)

County: Riverside Quad: _____ Location: E of Verbena → W to Verbena Rd
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 16 Transect length: 0.93

GPS Start-point: 0529268/3754618 1513ft Start time: 10:47 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0527980/3754652 1465ft End time: 11:17 am/pm
(easting, northing, elevation in meters)

Start Temp: 33 °C End Temp: 37 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160 mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1	<u>None</u>					
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	<u>None</u>			
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 16

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 17, 2011 Survey biologist(s): Ted Rado
(day, month, year) (name, email, and phone number)

Site description: Devers West
(project name and size; general location)

County: Riverside Quad: _____ Location: 1/2 mi E Utopia → W
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 12 Transect length: 0.44

GPS Start-point: 0529929 13754605 1471 ft Start time: 9:39 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0529326 13754617 1457 ft End time: 10:05 am/pm
(easting, northing, elevation in meters)

Start Temp: 30 °C End Temp: 34 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1	<u>none</u>					
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	<u>none</u>			
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1
 Transect number: 12

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 17, 2011 Survey biologist(s): Ted Kado
(day, month, year) (name, email, and phone number)

Site description: Devers west
(project name and size; general location)

County: Riverside Quad: _____ Location: North of Snow Creek → E
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 8 Transect length: 0.52

GPS Start-point: 0529973/3754638 1557 ft Start time: 8:54 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0530681/3754614 1562 ft End time: 9:19 am/pm
(easting, northing, elevation in meters)

Start Temp: 28 °C End Temp: 30 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow, all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1	<u>None</u>					
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	<u>None</u>			
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 8

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 17, 2011 Survey biologist(s): Ted Kato
(day, month, year) (name, email, and phone number)

Site description: Demo West
(project name and size; general location)

County: Riverside Quad: _____ Location: North of Snow Gas → W
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 4 Transect length: 0.53

GPS Start-point: 0520708/3754564 1552 ft Start time: 9:18 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0526963/3754596 1431 ft End time: 8:46 am/pm
(easting, northing, elevation in meters)

Start Temp: 23 °C End Temp: 28 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1	<u>none</u>					
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	<u>none</u>			
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1
 Transect number: 9

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 17-10-11 (day, month, year) Survey biologist(s): GREG WINTON (name, email, and phone number)

Site description: SUB - W. OF DEVERS (project name and size; general location)

County: RIV. Quad: _____ Location: 1/2 mi. W. OF COTTONWOOD - EAST (UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 07 Transect length: .56 mi

GPS Start-point: 0527791 - 3754653 - 1,534 FT (easting, northing, elevation in meters) Start time: 1314 am/pm

GPS End-point: 0527993 / 3754634 - 1,457 FT (easting, northing, elevation in meters) End time: 1335 am/pm

Start Temp: 38 °C End Temp: 39 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location (in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)	Approx MCL > 160-mm? (Yes, No, or Unknown)	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign (burrows, scats, carcass, etc)	Description and comments
	Easting	Northing		
1	<u>0527920</u>	<u>3754640</u>	<u>DT CLASS 4 BURROW</u>	<u>DT BURROW ON WASH BANK - WEST FACE 13" W X 7" X 18" - NO SIGN PRESENT</u>
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 17-10-11 Survey biologist(s): GREG WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE W. OF DEVERS
(project name and size; general location)

County: RIVERVIEW Quad: _____ Location: N. OF SNOWCREEK
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage for Sampling Area size to be surveyed: _____ Transect #: 03 Transect length: 0.52m

GPS Start-point: 0230704 / 3754555 1,542 FT Start time: 0818 am pm
(easting, northing, elevation in meters)

GPS End-point: 0529959 / 3754579 1,429 FT End time: 0844 am pm
(easting, northing, elevation in meters)

Start Temp: 23 °C End Temp: 28 °C

Live Tortoises

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1						
2						
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4						
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6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 17-10-11 Survey biologist(s): GRACE WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: N. OF SNOWCREEK / EAST
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 07 Transect length: 0.52 mi

GPS Start-point: 0529975 / 375460 - 1,438 FT Start time: 0854 am / pm
(easting, northing, elevation in meters)

GPS End-point: 0530677 / 375460 - 1,549 FT End time: 0917 am / pm
(easting, northing, elevation in meters)

Start Temp: 28 °C End Temp: 30 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 17-10-11 Survey biologist(s): GREG WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: 1/2 mi E. of VERBENA
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 11 Transect length: .44 mi

GPS Start-point: 0529925/3754596 - 1,467 FT Start time: 0939 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0529353/3754617 - 1,452 FT End time: 1005 am/pm
(easting, northing, elevation in meters)

Start Temp: 30 °C End Temp: 34 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion.

Date of survey: 11-10-11 Survey biologist(s): ARON WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS
(project name and size; general location)

County: Riv. Quad: _____ Location: EAST OF VERBENA - WEST
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 15 Transect length: 1.01mi

GPS Start-point: 0526273 / 3754607 - 1513 FT Start time: 1047 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0527987 / 3754648 - 1454 FT End time: 1117 am/pm
(easting, northing, elevation in meters)

Start Temp: 33 °C End Temp: 37 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 100-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
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4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 17-10-11 Survey biologist(s): ARBE WINTON
(day, month, year) (name, email, and phone number)

Site description: 5cc - W. OF DEVERS
(project name and size; general location)

County: RIV. Quad: _____ Location: VERBENA - EAST - 1 mi
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 19 Transect length: 1.00 mi

GPS Start-point: 6527970/375484 - 1476 FT Start time: 1123 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0529280/3754649 - 1,497 FT End time: 1201 am/pm
(easting, northing, elevation in meters)

Start Temp: 37 °C End Temp: 38 °C

Live Tortoises

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 11-10-11 Survey biologist(s): GREG WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS
(project name and size; general location)

County: Riv. Quad: _____ Location: COTTONWOOD - WEST
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 03 Transect length: 60 m

GPS Start-point: 0527977 - 3754679 - 1,460 FT Start time: 1244 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0527296 / 3754695 - 1,531 FT End time: 1307 am/pm
(easting, northing, elevation in meters)

Start Temp: 38 °C End Temp: 38 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): N. Moorhatch
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: E. side of Reservation → E
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 06 Transect length: 0.53 mi.

GPS Start-point: 527060 3754686 447m Start time: 0805 am/pm
(easting, northing, elevation in meters)

GPS End-point: 527850 3754658 421m End time: 0827 am/pm
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: _____ °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				NONE
2				
3				
4				
5				
6				
7				
8				

CAQU

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): N. Moorhatch
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: 20.5 mi. E. of Reservation → W to Res. fence
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 11 Transect length: 0.61 mi

GPS Start-point: 527849 3754607 418m Start time: 0836 am/pm
(easting, northing, elevation in meters)

GPS End-point: 526979 3754635 441m End time: 0858 am/pm
(easting, northing, elevation in meters)

Start Temp: 26.5 °C End Temp: 30 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				NONE
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: 11

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): N. Moorhatch
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: E. edge of Res. → W
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 01 Transect length: 1.08 mi.

GPS Start-point: 525898 3754674 474 m Start time: 1102 am/pm
(easting, northing, elevation in meters)

GPS End-point: 524253 3754680 488 m End time: 1137 am/pm
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 34.4 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

Sylvilagus aud.
 NOMO
 BTSP

Page: _____ of _____

Transect number: 01

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): N. Moorhatch
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: 1/2 mi. W of E. boundary of Res → E
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 03 Transect length: 1.11 mi

GPS Start-point: 524252 3754705 487m Start time: 11:45 am/pm
(easting, northing, elevation in meters)

GPS End-point: 525893 3754706 473m End time: 12:34 am/pm
(easting, northing, elevation in meters)

Start Temp: 34.4 °C End Temp: 36 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				NONE
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: 03

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): N. Moorhatch
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: ~1 mi. W of E. edge Reservation → W ~0.5 mi
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 01 Transect length: 0.52 mi.

GPS Start-point: 524250 3754680 442m Start time: 1327 am/pm
(easting, northing, elevation in meters)

GPS End-point: 523505 3754693 521m End time: 1351 am/pm
(easting, northing, elevation in meters)

Start Temp: 37 °C End Temp: 36.5 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: 01

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): N. Moorhatch
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: ~1/2 mi. W. of E. edge of Res. → E ~1/2 mi.
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 03 Transect length: 0.51 mi.

GPS Start-point: 523504 3754704 522m Start time: 13:54 am/pm
(easting, northing, elevation in meters)

GPS End-point: 524244 3754706 475m End time: 14:18 am/pm
(easting, northing, elevation in meters)

Start Temp: 36.5 °C End Temp: _____ °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2				NONE		
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				NONE
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: 03

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 Oct 11 Survey biologist(s): michael.wilcox@amec.com
(day, month, year) (name, email, and phone number)

Site description: SCE W OF DEVERS E BOUNDARY OF MORONGO RES. → W
(project name and size, general location)

County: RIVERSIDE CO. Quad: _____ Location: _____
(UTM coordinates, lat-long, and/or TRS, map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 2 Transect length: 1.07 mi

GPS Start-point: 0525898, 3754690, 474m Start time: 11:03 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0524248, 3754689, 489m End time: 11:38 am/pm
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 34 °C

Live Tortoises

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

WCSP
BUON

sylvia

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 OCT 11 Survey biologist(s): michael.wilcox@amec.com
(day, month, year) (name, email, and phone number)

Site description: SCE W OF DEVERS, E SIDE OF MORONGO W → E
(project name and size, general location)

County: RIVERSIDE Quad: _____ Location: _____
(UTM coordinates, lat-long, and/or TRS, map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 4 Transect length: 1.11 mi

GPS Start-point: 0524249, 3754718, 488 m Start time: 11:44 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0525392, 3754716, 473 m End time: 12:44 am/pm
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 36 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow, all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	<u>0524627</u>	<u>3754715</u>	<u>SCAT (1)</u>	<u>CLASS 4 (pic 1)</u>
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 OCT 11 Survey biologist(s): Michael Wilcox @ gmecc.com
(day, month, year) (name, email, and phone number)
 Site description: SCE W OF DEVERS, ~ 1.1 mi W OF E BOUNDARY E7W
(project name and size; general location)
 County: RIVERSIDE Quad: _____ Location: _____
(UTM coordinates, lat-long, and/or TRS; map datum)
 Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 2 Transect length: 0.47 mi
 GPS Start-point: 0524247, 3754695, 453 m Start time: 1:27 am/pm
(easting, northing, elevation in meters) (easting, northing, elevation in meters)
 GPS End-point: 0523500, 3754006, 522 m End time: 1:52 am/pm
(easting, northing, elevation in meters)
 Start Temp: 37 °C End Temp: 37 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 OCT 11 Survey biologist(s): michael.wilcox@amec.com
(day, month, year) (name, email, and phone number)
 Site description: SCE W OF DEVERS, MORONGAS 1.5 mi W OF E BOUNDARY W → E
(project name and size; general location)
 County: RIVERSIDE Quad: _____ Location: _____
(UTM coordinates, lat-long, and/or TRS; map datum)
 Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: A Transect length: 0.55 mi
 GPS Start-point: 0523500, 3754717, 525 m Start time: 1:57 am/pm
(easting, northing, elevation in meters)
 GPS End-point: 0524249, 3754719 m End time: 2:18 am/pm
(easting, northing, elevation in meters)
 Start Temp: 37 °C End Temp: 37 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 18, 2011 Survey biologist(s): Zsolt Kahancza
(day, month, year) (name, email, and phone number)

Site description: West of Devers - See
(project name and size, general location)

County: Riv. Quad: _____ Location: E. of Reservation to West
(UTM coordinates, lat/long, and/or TRS map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 3 Transect length: 0.15

GPS Start-point: 527309 / 9754704 439m Start time: 7:53 am pm
(easting, northing, elevation in meters)

GPS End-point: 52707 / 975414 443m End time: 7:59 am pm
(easting, northing, elevation in meters)

Start Temp: 21 °C End Temp: 25 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <i>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</i>	Approx MCL >160-mm? <i>(Yes, No or Unknown)</i>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <i>(burrows, scats, carcass, etc)</i>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

Page: _____ of _____

Transect number: 3

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 18, 2011 Survey biologist(s): Zsolt Kabancza
(day, month, year) (name, email, and phone number)

Site description: se west of Devers
(project name and size; general location)

County: Riv Quad: _____ Location: E. of Reservation → East
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 8 Transect length: 0.56

GPS Start-point: 527025 / 3754667 446m Start time: 8:00 am/pm am
(easting, northing, elevation in meters)

GPS End-point: 527899 / 3754634 425m End time: 8:30 am/pm am
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 26.5 °C

Live Tortoises

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

NONE

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

NONE

CAQU
WESP

Page: _____ of _____
 Transect number: 8

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 18, 2011 Survey biologist(s): Zolt Kahanca
(day, month, year) (name, email, and phone number)

Site description: 5cc west of Devers
(project name and size; general location)

County: Dev. Quad: _____ Location: End edge of Feb. → west
(UTM coordinates, lat/long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 7 Transect length: 1.0 m

GPS Start-point: 525892 / 3754736 475 m Start time: 11:06 am/pm
(easting, northing, elevation in meters)

GPS End-point: 524364 / 3754759 489 m End time: 11:45 am/pm
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 34.4 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160 mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

w-c SP
 10000 Rat nest
 Ammodramophilus

Page: _____ of _____

Transect number: 7

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct 18, 2011 Survey biologist(s): Zsolt Kahanza
(day, month, year) (name, email, and phone number)

Site description: sce west of Devers
(Project name and size; general location)

County: Riv. Quad: _____ Location: E. of Reservation - west
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 13 Transect length: 0.68m

GPS Start-point: 827845 / 3754582 417m Start time: 8:36 am/pm
(easting, northing, elevation in meters)

GPS End-point: 526955 / 3754617 442m End time: 9:02 am/pm
(easting, northing, elevation in meters)

Start Temp: 26.5 °C End Temp: 30 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

wood roost nest

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 18, 2011 Survey biologist(s): Zsolt Kahanecza
(day, month, year) (name, email, and phone number)

Site description: scv west of Devers
(project name and size; general location)

County: Riv. Quad: _____ Location: E. edge of Riv. → East
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 12 Transect length: _____

GPS Start-point: 524285 / 3754994 494m Start time: 12:05 am/pm
(easting, northing, elevation in meters)

GPS End-point: 525904 / 3754798 426m End time: 12:50 am/pm
(easting, northing, elevation in meters)

Start Temp: 34.4 °C End Temp: 36 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow, all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

CATH

B-T Jack Rabbit

Page: _____ of _____

Transect number: 12

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 18, 2011 Survey biologist(s): Zsolt Kahanecza
(day, month, year) (name, email, and phone number)

Site description: see west of Devers
(project name and size; general location)

County: Riv. Quad: _____ Location: 1.0 m east of the E. edge of Ret. 7 w
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 6 Transect length: 0.5 m

GPS Start-point: 524255 / 3754737 483 m Start time: 1:27 am pm

GPS End-point: 523495 / 3754334 531 m End time: 1:53 am pm
(easting, northing, elevation in meters) (easting, northing, elevation in meters)

Start Temp: 37 °C End Temp: 36.5 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

CAQ4 B-tail Jack Rab.
Antelope G. Squirrel

Page: _____ of _____
 Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 15, 2011 Survey biologist(s): Zolt Kahanec
(day, month, year) (name, email, and phone number)

Site description: sce west of Devert
(project name and size; general location)

County: Riv. Quad: _____ Location: 60m east of E. edge of Red → E.
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 11 Transect length: 0.5m

GPS Start-point: 823494 / 3754784 536m Start time: 1:59 am pm

GPS End-point: 824251 / 3754789 468m End time: 2:24 am pm
(easting, northing, elevation in meters) (easting, northing, elevation in meters)

Start Temp: 36.8 °C End Temp: 36.4 °C

Live Tortoises

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

woodrat nests
ROWL

Page: _____ of _____

Transect number: 11

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 Oct 2011 Survey biologist(s): Matt. Amalony @amec.com, 949 233 2134
(day, month, year) (name, email, and phone number)

Site description: SE W of Devers
(project name and size, general location)

County: Riverside Quad: _____ Location: E of Reservation → west
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 5 Transect length: 0.15 mi.

GPS Start-point: 527300, 3754683, 439 Start time: 7:56 am/pm
(easting, northing, elevation in meters)

GPS End-point: 527073, 3754696, 443 End time: 8:04 am/pm
(easting, northing, elevation in meters)

Start Temp: 21 °C End Temp: 25 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow, all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	None				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 5

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 Oct 2011 Survey biologist(s): Math. Amalony@amec.com, 949 233 2134
(day, month, year) (name, email, and phone number)

Site description: SCE w of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: E of Reservation → east
(UTM coordinates, lat-long, and/or TRS: map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 10 Transect length: 0.59 mi

GPS Start-point: 527000, 3754648, 444 Start time: 8:12 am/pm
(easting, northing, elevation in meters)

GPS End-point: 527851, 3754614, 419 End time: 8:32 am/pm
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 27 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1	None					
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	None			
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 10

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 Oct 2011 Survey biologist(s): Matth. Amalony@amec.com, 949 233 2134
(day, month, year) (name/email, and phone number)

Site description: SCE W of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: E of Reservation → west
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 15 Transect length: 0.63 mi

GPS Start-point: 527851, 3754566, 418 Start time: 8:39 am/pm
(easting, northing, elevation in meters)

GPS End-point: 526928, 3754601, 437 End time: 9:04 am/pm
(easting, northing, elevation in meters)

Start Temp: 27 °C End Temp: 30 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1	<u>None</u>				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>None</u>		
2			
3			
4			
5			
6			
7			
8			

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Page: 1 of 1
 Transect number: 15

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 Oct 2011 Survey biologist(s): Matt. Amalony @ amcc.com, 9492332134
(day, month, year) (name, email, and phone number)

Site description: SE W of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: E edge of Res → West
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 10 Transect length: 1.1 mi

GPS Start-point: 525889, 3754767, 481 Start time: 11:08 am/pm
(easting, northing, elevation in meters)

GPS End-point: 524380, 3754766, 484 End time: 11:49 am/pm
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 35 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1	<u>None</u>				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>None</u>		
2			
3			
4			
5			
6			
7			
8			

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Ann lev

Nomo BTSP
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BVOW
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Page: 1 of 1
Transect number: 10

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 Oct 2011 Survey biologist(s): Math. Amalony@amec.com, 9492332134
(day, month, year) (name, email, and phone number)

Site description: SE W of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: E edge of Reservation → East
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 15 Transect length: 1.1 mi.

GPS Start-point: 524251, 3754826, 492 Start time: 12:10 am/pm pm
(easting, northing, elevation in meters)

GPS End-point: 525894, 3754829, 479 End time: 12:51 am/pm pm
(easting, northing, elevation in meters)

Start Temp: 35 °C End Temp: 36 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1	<u>None</u>				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>None</u>		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1
 Transect number: 15

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 Oct 2011 Survey biologist(s): Math. Amalony@amec.com
(day, month, year) (name, email, and phone number)

Site description: SCE W of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: ~1 mi. west of east edge of reservation
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 9 Transect length: 0.5 mi. west

GPS Start-point: 524250, 3754765, 491 Start time: 1:32 am/pm

GPS End-point: 523493, 3754762, 540 End time: 1:58 am/pm
(easting, northing, elevation in meters)

Start Temp: 37 °C End Temp: 37 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	None				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1
 Transect number: 9

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18 Oct 2011 Survey biologist(s): Matt. Amalony@amec.com, 9492332134
(day, month, year) (name, email, and phone number)

Site description: SCE W of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: ~ 1.5 mi. west of east edge ^{Rel.} → east
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 14 Transect length: 0.5 mi.

GPS Start-point: 523484, 3754815, 540 Start time: 2:07 am/pm pm
(easting, northing, elevation in meters)

GPS End-point: 524251, 3754815, 492 End time: 2:29 am/pm pm
(easting, northing, elevation in meters)

Start Temp: 37 °C End Temp: 36 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160 mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	<u>None</u>				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>None</u>		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 14

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 10/10/2011 Survey biologist(s): L RODRIGUEZ
(day, month, year) (name, email, and phone number)

Site description: SCE WEST OF DEVERS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: 1.5 miles W. OF EAST EDGE → E
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 13 Transect length: 0.5 miles

GPS Start-point: 115523489E 3754806 N, 435EW Start time: 14:02 am/pm
(easting, northing, elevation in meters)

GPS End-point: 115524250E 3754804 N, 492EW End time: 14:25 am/pm
(easting, northing, elevation in meters)

Start Temp: 37 °C End Temp: 37 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1	NONE					
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	NONE			
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 10/10/11 Survey biologist(s): L. RODRIGUEZ
(day, month, year) (name, email, and phone number)

Site description: SCE V. OF DEVERS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: 4 mi W. of Edge of Reservation → V.O.
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 8 Transect length: 2 miles

GPS Start-point: 119524246E 3754754N 515EUV Start time: 13:27 am/pm

GPS End-point: 119523495E 3754754N 535EUV End time: 13:53 am/pm

Start Temp: 37 °C End Temp: 36.5 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	None				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None		
2			
3			
4			
5			
6			
7			
8			

BLK TAIL JACK RABBIT

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 10/10/2011 Survey biologist(s): L. RODRIGUEZ
(day, month, year) (name, email, and phone number)

Site description: E. EDGE OF RESERVATION → E SCR LN OF DEVERS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: E. EDGE OF RESERVATION → E.
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 14 Transect length: 1 MILE

GPS Start-point: 119524254E 3754615N 5196W Start time: 12:07 am/pm am
(easting, northing, elevation in meters)

GPS End-point: 119525895E 3754619N 5206W End time: 12:47 am/pm am
(easting, northing, elevation in meters)

Start Temp: 34.4 °C End Temp: 36 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1	<u>NONE</u>				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>NONE</u>		
2			
3			
4			
5			
6			
7			
8			

BLACK TAIL JACK RABBIT 2

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 10/10/2011 Survey biologist(s): L. RODRIGUEZ
(day, month, year) (name, email, and phone number)

Site description: SCE W. OF DEVERS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: E. EDGE OF RESERVATION → W
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 9 Transect length: 1 Mile

GPS Start-point: 115525490E 3754757N 479BLV. Start time: 11:04 am/pm
(easting, northing, elevation in meters)

GPS End-point: 115524367E 3754755N 484BLV. End time: 11:45 am/pm
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 35 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	NONE				
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	NONE		
2			
3			
4			
5			
6			
7			
8			

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): ROB JOHNSON Rob. B. JOHNSON@AMZ.com
(day, month, year) (name, email, and phone number)

Site description: 3CE WEST OF DEVERS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: 1.5 mi WEST OF EASTERN RESERVATION BOUNDARY
(UTM coordinates, lat/long, and/or TRS; map datum) → E

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 12 Transect length: 0.5 mi

GPS Start-point: 523793, 3754799, 62.562 Start time: 14:00 am/pm
(easting, northing, elevation in meters)

GPS End-point: 524238, 3754794 End time: 14:24 am/pm
(easting, northing, elevation in meters)

Start Temp: 36.5 °C End Temp: _____ °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 12

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): ROB JOHNSON ROB.BJOHNSON@AMBC.COM
(day, month, year) (name, email, and phone number)

Site description: 500 SCATS WEST OF DEVONS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: 1 MILE WEST OF EAST MISQUATION BLDG → W
(UTM coordinates, lat/long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 7 Transect length: ~0.5 MILE

GPS Start-point: 524247, 3754745, EL. 505 Start time: 13:27 am/pm
(easting, northing, elevation in meters)

GPS End-point: 524743, 3754741, EL. 562 End time: 13:53 am/pm
(easting, northing, elevation in meters)

Start Temp: 37 °C End Temp: 36.5 °C

Live Tortoises

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow, all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1
 Transect number: 37

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): ROB JOHNSON ROB. B. JOHNSON @ AMEC.COM
(day, month, year) (name, email, and phone number)

Site description: SCB WAT OF DEVERS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: EAST EDGE PERSIMMON → E
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 13 Transect length: 1 mile

GPS Start-point: 524249, 3754804, EL. 519 Start time: 12:05 pm
(easting, northing, elevation in meters)

GPS End-point: 525911, 3754812, EL. 520 End time: 12:47 am/pm
(easting, northing, elevation in meters)

Start Temp: 34.4 °C End Temp: 36 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

CA THNAT HUR
 B.T. JACK RABBIT

Page: 1 of 1

Transect number: 13

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): ROB JOHNSON ROB.B.JOHNSON@AMRC.COM
(day, month, year) (name, email, and phone number)

Site description: SC8 WEST OF DOVONS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: EAST EDGE RECONSTRUCTION → W
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 8 Transect length: 1 MILE

GPS Start-point: 525898, 3754749 504M Start time: 11:04 (am/pm)
(easting, northing, elevation in meters)

GPS End-point: 524359, 3754744 511M End time: 11:45 (am/pm)
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 94 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 8

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): Rob Johnson, Rob.B.Johnson@Amezc.com
(day, month, year) (name, email, and phone number)

Site description: 566 WEST OF DEVERS
(project name and size; general location)

County: RIVINGTON Quad: _____ Location: EAST OF RESERVATION → W
(UTM coordinates, lat/long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 14 Transect length: 0.62

GPS Start-point: 0527846, 3754578 EL. 446 Start time: 08:36 am pm
(easting, northing, elevation in meters)

GPS End-point: 0526943, 3754612 EL. 473 End time: 09:00 am pm
(easting, northing, elevation in meters)

Start Temp: 26.5 °C End Temp: 30 °C

Live Tortoises

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 7

Transect number: 14

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 10/10/11 Survey biologist(s): ROB JOHNSON, ROB.S.JOHNSON@AMSC.COM
(day, month, year) (name, email, and phone number)

Site description: SC 6 WEST OF DEVONS
(project name and size; general location)

County: RIVERSIDE Quad: _____ Location: EAST OF PRESUMPTION → E
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 9 Transect length: 0.59 mi

GPS Start-point: 527002, 3754657, 61491m Start time: 08:10 (am/pm)
(easting, northing, elevation in meters)

GPS End-point: 527840, 3754632, 62484m End time: 08:30 (am/pm)
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 26.5 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3			NONE			
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3			NONE	
4				
5				
6				
7				
8				

Page: 1 of 1
 Transect number: 9

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18/10/11 Survey biologist(s): ROB JOHNSON (ROB.B.JOHNSON@AMREC.COM)
(day, month, year) (name, email, and phone number)

Site description: SEE WEST OF DEVILS
(project name and size; general location)

County: RIVONSID Quad: _____ Location: EAST OF POSSESSION → W
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 4 Transect length: 0.15 mile

GPS Start-point: 527301, 3754696 EL 436m. Start time: 07:53 (am/pm)

GPS End-point: 527074, 3754709 EL 443 End time: 08:00 (am/pm)

Start Temp: 21.4 °C End Temp: 22.0 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 01

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18-10-11 Survey biologist(s): GREG WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS
(project name and size; general location)

County: RIV. Quad: _____ Location: EAST OF RESERVATION - ~~WEST~~ EAST
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 02 Transect length: 0.14 mi

GPS Start-point: 0527305 / 3754717 - 1542 FT Start time: 0753 am / pm
(easting, northing, elevation in meters)

GPS End-point: 0527118 / 3754723 - 443m End time: 0758 am / pm
(easting, northing, elevation in meters)

Start Temp: 21.4 °C End Temp: 25 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18-10-11 Survey biologist(s): GREY WINTON
(day, month, year) (name, email, and phone number)

Site description: 3CE - W. OF DEVERS
(project name and size; general location)

County: RIV. Quad: _____ Location: EAST OF RESERVATION - WEST
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 07 Transect length: 0.53m

GPS Start-point: 0527048-3754678-444m Start time: 0805 am pm
(easting, northing, elevation in meters)

GPS End-point: 0527848-3754648-417m End time: 0829 am pm
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 26.5 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18-10-11 Survey biologist(s): EREN WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS
(project name and size, general location)

County: RIV. Quad: _____ Location: EAST OF RESERVATION - WEST
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 12 Transect length: 0.61 mi

GPS Start-point: 0527851-3754596-422m. Start time: 0836 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0526965-3754627-444m. End time: 0859 am/pm
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 30 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18-10-11 Survey biologist(s): GREG WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS
(project name and size; general location)

County: RIV. Quad: _____ Location: EAST EDGE RESERVATION - WES
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 06 Transect length: 1.0 mi

GPS Start-point: 0525892-374722-1650 FT Start time: 1109 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0524338-3754731 1685 FT End time: 1147 am/pm
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 35 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>0524353 3754730</u>	<u>12" x 5" x 18" CLASS 2 DT BURROW</u>	<u>W/ CLASS 3 SCAT AT APRON / SOUTH FACING ON ROAD 13.62M</u>
2			
3			
4			
5			
6			
7			
8			

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 10-10-11 Survey biologist(s): ALLEG WINTON
(day, month, year) (name, email, and phone number)

Site description: SEE - W. OF DEVERS
(project name and size; general location)

County: RIV. Quad: _____ Location: EAST EDGE OF RESERVATION - EAST
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 11 Transect length: 1.35 mi

GPS Start-point: 0524252 - 3754781 - 1701 FT Start time: 1205 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0525903 - 3754785 - 1649 FT End time: 1248 am/pm
(easting, northing, elevation in meters)

Start Temp: 35 °C End Temp: 36.5 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 18-10-11 Survey biologist(s): GREG WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE. W. OF DEVERS
(project name and size; general location)

County: Riv Quad: _____ Location: 1 mi. W. OF EASTERN EDGE OF RES.
(UTM coordinates, lat-long, and/or TRS; map datum) → WEST

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 05 Transect length: 0.2 mi

GPS Start-point: 0524046-3754722-1697 FT Start time: 1327 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0523493-3754723-1818 FT End time: 1357 am/pm
(easting, northing, elevation in meters)

Start Temp: 37 °C End Temp: 36.5 °C

Live Tortoises

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 10-10-11 Survey biologist(s): GREG WINTON
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS
(project name and size; general location)

County: Riv. Quad: _____ Location: 1 mi. W. OF EASTERN EDGE OF RES.
(UTM coordinates, lat-long, and/or TRS; map datum) → EA

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 10 Transect length: 0.54 mi.

GPS Start-point: 0523493-3754774-1844 FT Start time: 1405 am/pm
(easting, northing, elevation in meters)

GPS End-point: 0524246-3754769-1680 FT End time: 1430 am/pm
(easting, northing, elevation in meters)

Start Temp: 36.5°C End Temp: 36.4°C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: _____ of _____

Transect number: _____

USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 11/10/11 Survey biologist(s): N. Moorhatch
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers
(project name and size; general location)

County: Riverside Quad: _____ Location: E. of Reservation → W
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: _____ Transect #: 01 Transect length: 0.14mi

GPS Start-point: 527302 3754726 444m Start time: 0753 (am/pm)
(easting, northing, elevation in meters)

GPS End-point: 527131 3754731 445m End time: 0758 (am/pm)
(easting, northing, elevation in meters)

Start Temp: 21.4 °C End Temp: 25 °C

Live Tortoises

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 01