Focused Burrowing Owl, Mohave Ground Squirrel and Desert Tortoise Surveys

For

Apple Valley Towne Center Phase 2

(APN #3087-171-15, -16)
Apple Valley South 7.5 Minute Quadrangle,
Section 31, Township 5N, Range 3W
Apple Valley, San Bernardino County, California

Prepared for

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1 INTRODUCTION AND PURPOSE

At the request of Rich Development, LLC (Rich), Phoenix Biological Consulting (Phoenix) initiated several biological focused surveys on the approximately 6-acre property (APN: #3087-171-15, -16) Rich is developing the site into a commercial development project known as Apple Valley Towne Center Phase 2.

Based on the location of the project site, several focused biological surveys were conducted to determine the presence or absence of sensitive biological species. The site was surveyed for burrowing owl, desert tortoise and Mohave ground squirrels. The results were negative for any sign/presence of burrowing owl, desert tortoise and Mohave ground squirrel. The survey activities include: (1) Burrowing owl surveys – Section II, (2) Desert tortoise surveys – Section III. (3) Mohave ground squirrel surveys – Section IV.

2 PROPERTY AND PROJECT DESCRIPTION

2.1 Project Location

The site is located north of Bear Valley Road in the Apple Valley South 7.5-minute quadrangle topographic map (Exhibit 2). The legal description of the parcel is a portion of Section 31, Township 5 N, Range 3 W, City of Apple Valley, and San Bernardino County.

2.2 Project Description & Existing Conditions

The site is currently considered disturbed desert scrub habitat with rubber rabbit brush vegetation present in sparse patches. Rich Development is proposing to develop the site into a commercial development known as Apple Valley Town Center Phase 2 on approximately 6 acres, assessor property (APN: #3087-171-15, -16) located in Apple Valley, San Bernardino County.

The parcel is situated at approximately 2,860 feet elevation. It is east of Mojave River and situated in the southeastern portion of Apple Valley. Commercial areas exist to the west and south of the study area. Relatively open desert scrub habitat exists to the north and east.

The 6-acre study area consists of semi-disturbed undeveloped lands. There is no evidence of recent disking within or adjacent to the site, per the site visit or aerial photo review. There are

no true trees in or bordering the site. Existing vegetation consists of sparse patches of rubber rabbit brush.

SECTION II – BURROWING OWL FOCUSED SURVEY RESULTS

3 JUSTIFICATION

Based on the location and habitat present on site focused surveys were conducted for the burrowing owl (BUOW; *Athene cunicularia*) during the spring/summer of 2021.

4 METHODLOGY

BUOW surveys were conducted during the spring/summer of 2021. The burrowing owl surveys were conducted by Ryan Young. Mr. Young has conducted dozens of protocol level burrowing owl surveys throughout the species range. Survey methodology for the BUOW included the Staff Report on Burrowing Owl Mitigation (CDFW, 2012).

The burrowing owl surveys were conducted by walking straight-line transects spaced 7 m to 20 m apart, adjusting for vegetation height and density. At the start of each transect and, at least, every 100 m, scan the entire visible project area for burrowing owls using binoculars. Four site visits were included for the BUOW surveys. During the pedestrian surveys, the biologists recorded all potential burrows used by burrowing owls as determined by the presence of one or more burrowing owls, pellets, prey remains, whitewash, or decoration. The field biologists also paused at regular intervals to listen for owl vocalizations. Survey teams used hand-held mirrors to view into any potential burrows. Buffer zone surveys were conducted out to 150 meters from the project edge. The owl surveys started between morning civil twilight and 10:00 am and/or two hours before sunlight until evening civil twilight. During the survey, the surveyor(s) search images included: burrows, burrowing owls, owl feathers, pellets, owl whitewash (scat) and owl vocalizations. Surveys were conducted in all portions of the project site and buffer areas that were identified in the habitat assessment.

5 WEATHER

Weather conditions during the spring survey effort consisted of relatively dry conditions. Winter rainfall of 2020-21 is below average. The Apple Valley Automated Weather Station (RAWS) which is located 8.7 miles northeast of the site received 2.19 inches from November 2020 through March 2021 (RAWS, 2021). Annual plant abundance was lacking. The morning and afternoon temperatures were taken to ensure surveys were within acceptable parameters for the BUOW surveys.

Table 1: Weather Summary for Surveys

Date	Begin Temp (°F)	End Temp (°F)	Begin Cloud %	End Cloud %	Begin Wind (MPH)	End Wind (MPH)
04/14/21	49	62	5	5	8	8
05/05/21	63	86	5	10	0	2
05/26/21	65	84	10	10	2	6
06/24/21	70	98	15	15	3	10

6 BURROWING OWL RESULTS

6.1 Field Results

The field results were negative for the presence of burrowing owls and/or their sign. There are several California ground squirrel burrows present but no sign of burrowing owls was present.

7 JUSTIFICATION

Based on the location and suitable surrounding habitat present on site focused surveys were conducted for the desert tortoise (DETO; *Gopherus agassizii*) during the spring/summer of 2021.

8 METHODLOGY

Desert Tortoise (*Gopherus agassizzii*) presence/absence survey methodology conformed to the *Desert Tortoise Pre-project Survey Protocol* (USFWS, 2017). The survey was conducted by Ryan Young who has conducted numerous desert tortoise surveys in Southern California and successfully completed the Desert Tortoise Workshop in 2009.

The desert tortoise survey was conducted by walking straight-line transects spaced 10 m apart. At the start of each transect and, at least, every 100 m, scan the entire visible project area for desert tortoise using binoculars. The desert tortoise survey focused on finding desert tortoise along with both scat and carcasses. The desert tortoise survey was conducted in May when air temperatures are below 40°C (104 °F). During the pedestrian survey, Mr. Young recorded all potential burrows used by desert tortoise as determined by the presence of one or more desert tortoises, scat, and carcasses. Hand-held mirror to view into any potential burrows. Buffer zone survey was conducted out to 150 meters from the project edge. During the survey, Mr. Young's search images included: burrows, desert tortoise, scat, tracks, and carcasses. Surveys were conducted in all portions of the project site and buffer areas.

Weather conditions during the spring survey effort consisted of warm weather in the Apple Valley Region. Winter rainfall of 2020-21 continued to be below average and drought conditions persist throughout the state of California. The morning and afternoon temperatures were taken to ensure that the survey was within acceptable parameters for desert tortoise.

Table 2: Weather Summary for the Desert Tortoise Survey

Date	Begin Temp (°F)	End Temp (°F)	Begin Cloud %	End Cloud %	Begin Wind (MPH)	End Wind (MPH)
05/6/21	61.2	82	0.0	0.0	2.1	7.1

8.1 Desert Tortoise Survey Results

The field results were negative for desert tortoise. Numerous small burrows were observed
during the field effort. The burrows were absent of desert tortoise sign. The burrows all
appeared to be inactive and appear to have been ground squirrel burrows. No desert tortoises
were observed during the survey effort and no desert tortoise scat was observed.

9 JUSTIFICATION

Based on a preliminary desktop review of the CNDDB Search results it was determined that focused surveys were recommended for the Mohave ground squirrel during the spring/summer of 2021 trapping period. Field surveys were conducted by Ryan Young.

10 METHODLOGY

The visual survey was conducted on March 31st. All potential MGS habitat within the grid location was surveyed during this visit. Phoenix's role was to locate the grid location and implement the live-trapping for one grid within the project site. Within the one grid, one hundred (100) traps were deployed at thirty-five meter spacing over the suitable habitat (Table 2). The grid consisted of ten by ten grid arrays. Typically, a grid is required for every eighty acres of habitat. Grid placement was determined by suitable vegetation cover, proximity to surrounding habitat and availability of access roads.

Standard, small-mammal, aluminum, foldable, ventilated 12" Sherman Traps were used. Cardboard boxes were used as shade covers for each trap. Traps and shade covers were placed on the north side of the nearest bush on a north-south axis to provide the greatest shade cover possible. The shade covers were covered with dirt on both sides and on the roof to provide better temperature insulation and to prevent the boxes from blowing away in the wind. Temperature readings were taken and recorded every hour at one foot and at ground level in the shade of a bush. Traps were checked every two to four hours depending on temperature and other influential factors such as potential pregnant or lactating females in traps, dogs on grids, ravens, cold weather, expected juveniles etc. Traps were open within one hour after sunrise and closed within one hour before sunset. Traps were closed when air temperature reached 90 °F, when temperature fell below 50 °F or during periods of rainy weather. The bait used consisted of crushed four-way grains with molasses and mixed with peanut butter and water.

11 WEATHER

Weather conditions during the spring survey effort consisted of relatively dry conditions. Winter rainfall of 2021 is below average. The Apple Valley Automated Weather Station (RAWS) which is located 8.7 miles northeast of the site received 2.19 inches from November 2020 through March 2021 (RAWS, 2021).

Phoenix Biological Consulting
Apple Valley Towne Center Biological Study

12 MOHAVE GROUND SQUIRREL RESULTS

12.1 MGS Survey Field Results

MGS were not seen nor heard during the visual survey. Furthermore, MGS were not trapped on the grid. A total of two species were trapped on the grid: Antelope ground squirrels (AGS; *Ammospermophilus leucurus*) and California ground squirrels (CGS; *Spermophilus beecheyi*). The results of the five camera stations were also negative for MGS. Species recorded via camera bait stations included Antelope ground squirrels, California ground squirrels, Kangaroo rat (*Dipodomys sp.*) and Deer mouse (*Peromyscus sp.*). All the above-named species are commonly occurring, non-listed species.

Total trap hours were 165 for the total project site. Total captures were 70. 10 captures were AGS, 50 captures were CGS, 5 captures were kangaroo rats and 5 captures were deer mice. The results of the MGS survey are good for up to one year from the final trap date.

SECTION V – RECOMMENDATIONS FOR GENERAL MITIGATION MEASURES

Below are proposed, general mitigation measures (MM) resulting from the focused survey results:

- ▶ MM-01: Nesting Bird Survey: To comply with the Migratory Bird Treaty Act (MBTA), if any ground disturbance is anticipated during the nesting bird season (February-August) the project proponent will initiate a breeding/nesting bird survey, within 14 days before construction starts, to ensure no nesting birds are impacted. If a nesting bird is detected, the area will be avoided and a 50-meter buffer will be installed until the nesting birds have fledged and have been observed to be foraging independently. In the event a hawk nest is observed, the active buffer may be extended to 150 feet and shall be installed around the hawk nest until the birds are observed to be foraging independently.
- ➤ MM-02: 14 Day Take Avoidance Burrowing Owl Preconstruction Survey: A preconstruction burrowing owl take avoidance survey, within 14 days of start of construction, is recommended to ensure no burrowing owls have moved onto the project site. The project proponent should retain a qualified biologist to conduct a burrowing owl preconstruction survey within the project site and the 150-meter buffer zone to ensure no owls have emigrated onto the site.

13 Literature Cited

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14 Certification

I hereby certify that the statements furnished above and in the attached exhibits present the data and information presented are true and correct to the best of my knowledge and belief. Field work conducted for this report was performed by me or under my direct supervision. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project applicant or applicant's representative and that I have no financial interest in the project. Any federally and/or state threatened/endangered species cannot be taken under State and Federal law. The report and recommended mitigation measures included in this report do not constitute authorization for incidental take of any sensitive species.

Biologicai Technicai i	Report and Field S	ourveys
Prepared BY:		
Date: <u>7/1/2021</u>	Signature:	The Epix
		Ryan Young, Senior Biologist & Principal

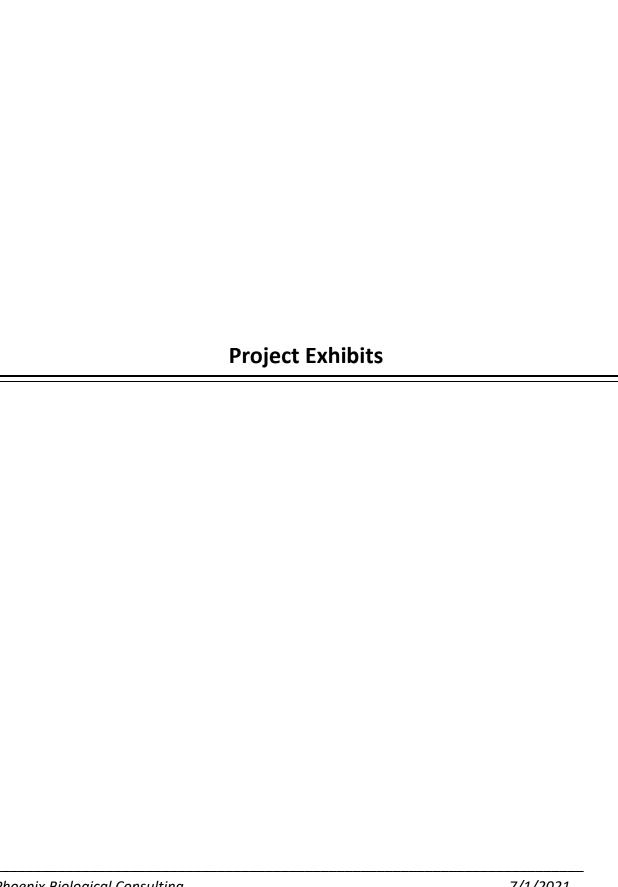


Exhibit 1: Regional View

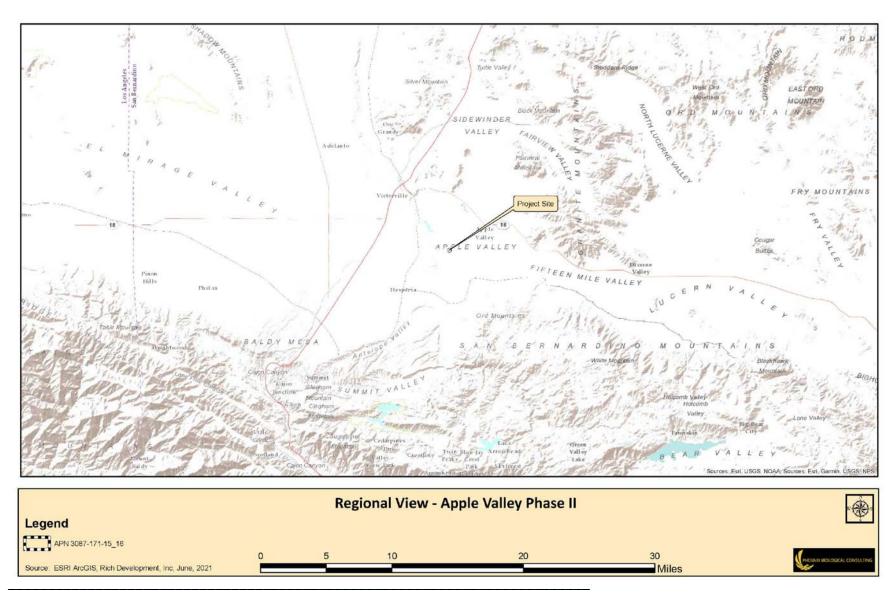


Exhibit 2: Topographic View

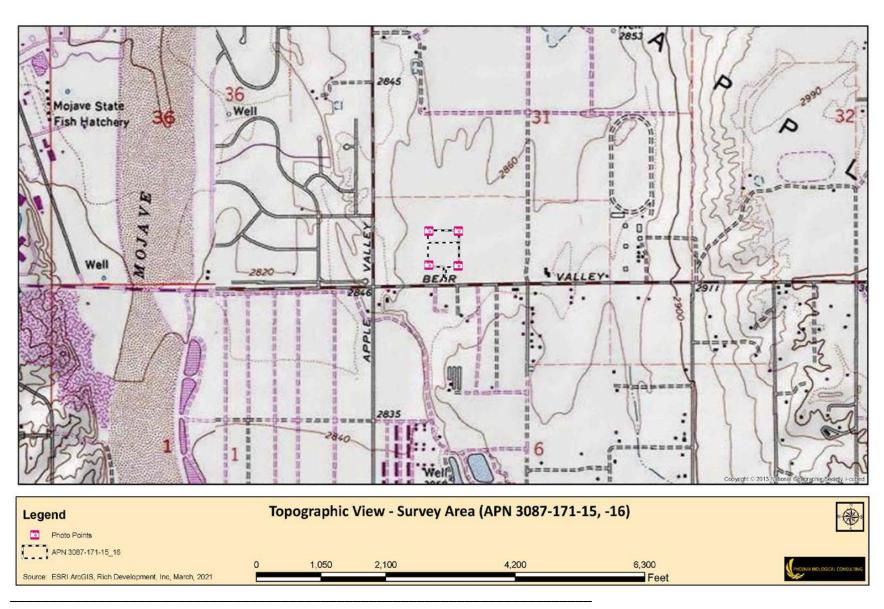


Exhibit 3: Aerial View





Mohave Ground Squirrel (MGS) Survey and Trapping Form

Project name:	Apple Valley Center Plaza Phase II
Project owner:	Rich Development
USGS quadrangle/series (7.5/15 min):	Apple Valley South
Latitude (decimal degree):	34.47273
Longitude (decimal degree):	117.23849
Datum:	WGS84
Location (township, range, section, 1/4 section):	5N, 3W, Section 31
UTM coordinates:	478097 E, 3814605 N
Acreage of project site:	6.8 acrres
Acreage of potential MGS habitat on site:	5 acres
Total acreage ∨isually surveyed on project site	6.8 acres
Visual survey date(s):	March 30, 2021
Visual surveys conducted by:	Ryan Young
Total acres trapped:	6 acres
Number of sampling grids:	One
Trapping conducted by:	Ryan Young
Dates of sampling term(s): First, Second, Third	April 21-25, 2021, May 27-31, 2021, June 25-29, 2021.

Dominant perennials:	Rubber rabbitbrush
Other dominant perennials:	
Annuals:	Eriodium cicutarium
Other annuals:	
Landforms:	flat
Soil description:	loamy
Elevation (meters):	
% Slope:	1%
PART III - WEATHER	
Temperature (celsius):	See Attached Weather Forms
% Cloud cover:	See Attached Weather Forms
Wind speed (km/hr):	See Attached Weather Forms
ADDITIONAL INFORMATION	
UTM coordinates: GPS coordinates of trap	ping-grid corners
Visual surveys conducted by: Names of all	persons by date
Trapping conducted by: Names of all person	ons by sampling term and sampling grid
Dates of sampling term(s): First, Second, T	hird: Second and Third if required
Landforms: Mesa, bajada, wash	
Temperature: AIR (Minimum and maximum Report measurements in the following cate indicate time of day that each measuremen	gories for each day of visual survey and each day of trapping; using 24-hour clock,
	PM. Report measurements in the following categories for each day of visual survey ock, indicate time of day that each measurement was made.
	ments in the following categories for each day of visual survey and each day of of day that each measurement was made.

Appendix B: Weather Data Example, Grid 1, Session 1

PART III – WEATHER

Project Name: Apple Valley Town Center Plaza Phase II

Property Owner: Rich Development Year: 2021 (Trapping Period _1_)

Grid Number: 1

WEATHER (temperature = °F; cloud cover = %; wind speed = kph)

DATE:04/21/21 ACTIV	TTY: trappi	ng Day 1
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	46	0600
AIR TEMPERATURE, MAX.	60	1200
SOIL TEMPERATURE, MIN.	41	0600
SOIL TEMPERATURE, MAX.	65	1200
CLOUD COVER, AM	15	0800
CLOUD COVER, PM	25	1500
WIND SPEED, AM	6	0600
WIND SPEED, PM	15	1500

DATE:04/22/21 ACTIVITY: trapping Da				
WEATHER CONDITION	VALUE	TIME		
AIR TEMPERATURE, MIN.	46	0600		
AIR TEMPERATURE, MAX.	76	1500		
SOIL TEMPERATURE, MIN.	40	0600		
SOIL TEMPERATURE, MAX.	80	1500		
CLOUD COVER, AM	15	0800		
CLOUD COVER, PM	20	1500		
WIND SPEED, AM	4	0600		
WIND SPEED, PM	14	1500		

DATE:04/23/21 ACTIV	ACTIVITY: trapping Day 3			
WEATHER CONDITION	VALUE	TIME		
AIR TEMPERATURE, MIN.	46	0600		
AIR TEMPERATURE, MAX.	79	1300		
SOIL TEMPERATURE, MIN.	41	0600		
SOIL TEMPERATURE, MAX.	83	1300		
CLOUD COVER, AM	10	0600		
CLOUD COVER, PM	15	1500		
WIND SPEED, AM	2	0600		
WIND SPEED, PM	10	1500		

ATE:04/24/21 ACTIV	/ITY: trappi	ng Day 4
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	51	0600
AIR TEMPERATURE, MAX.	75	1300
SOIL TEMPERATURE, MIN.	48	0600
SOIL TEMPERATURE, MAX.	80	1300
CLOUD COVER, AM	10	0600
CLOUD COVER, PM	10	1500
WIND SPEED, AM	5	0600
WIND SPEED, PM	10	1500

DATE:04/25/21 ACTIVITY: trapping Day 5		
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	49	0600
AIR TEMPERATURE, MAX.	66	1500
SOIL TEMPERATURE, MIN.	45	0600
SOIL TEMPERATURE, MAX.	70	1500
CLOUD COVER, AM	15	0600
CLOUD COVER, PM	20	1500
WIND SPEED, AM	5	0600
WIND SPEED, PM	15	1500

Appendix B: Weather Data Example, Grid 1, Session 2

PART III - WEATHER

Project Name: Apple Valley Town Center Plaza Phase II

Property Owner: Rich Development Year: 2021 (Trapping Period 2)

Grid Number: 1

WEATHER (temperature = °F; cloud cover = %; wind speed = kph)

DATE:05/27/21 ACTIVITY: trapping I		
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	56	0600
AIR TEMPERATURE, MAX.	89	1400
SOIL TEMPERATURE, MIN.	.53	0600
SOIL TEMPERATURE, MAX.	95	1400
CLOUD COVER, AM	20	0800
CLOUD COVER, PM	20	1500
WIND SPEED, AM	4	0600
WIND SPEED, PM	13	1500

DATE:05/28/21 ACTIVITY: trapping Day			
WEATHER CONDITION	VALUE	TIME	
AIR TEMPERATURE, MIN.	60	0600	
AIR TEMPERATURE, MAX.	90	1400	
SOIL TEMPERATURE, MIN.	55	0600	
SOIL TEMPERATURE, MAX.	95	1400	
CLOUD COVER, AM	12	0800	
CLOUD COVER, PM	15	1500	
WIND SPEED, AM	2	0600	
WIND SPEED, PM	14	1500	

DATE:05/29/21 ACTIVITY: trapping Day 3		
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	65	0600
AIR TEMPERATURE, MAX.	88	1300
SOIL TEMPERATURE, MIN.	60	0600
SOIL TEMPERATURE, MAX.	90	1300
CLOUD COVER, AM	10	0600
CLOUD COVER, PM	15	1500
WIND SPEED, AM	4	0600
WIND SPEED, PM	12	1500

DATE:05/30/21 ACTIVITY: trapping Da		
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	56	0600
AIR TEMPERATURE, MAX.	93	1300
SOIL TEMPERATURE, MIN.	52	0600
SOIL TEMPERATURE, MAX.	95	1300
CLOUD COVER, AM	15	0600
CLOUD COVER, PM	15	1500
WIND SPEED, AM	0	0600
WIND SPEED, PM	12	1500

DATE:05/31/21 ACTIVITY: trapping Day 5			
WEATHER CONDITION	VALUE	TIME	
AIR TEMPERATURE, MIN.	69	0600	
AIR TEMPERATURE, MAX.	98	1500	
SOIL TEMPERATURE, MIN.	65	0600	
SOIL TEMPERATURE, MAX.	100	1500	
CLOUD COVER, AM	5	0600	
CLOUD COVER, PM	10	1500	
WIND SPEED, AM	2	0600	
WIND SPEED, PM	10	1500	

Appendix B: Weather Data Example, Grid 1, Session 3

PART III - WEATHER

Project Name: Apple Valley Town Center Plaza Phase II Property Owner: Rich Development

Property Owner: Rich Development Year: 2021 (Trapping Period _3_)

Grid Number: 1

WEATHER (temperature = °F; cloud cover = %; wind speed = kph)

DATE:06/25/21 ACTIV	TTY: trappi	ng Day 1
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	61	0500
AIR TEMPERATURE, MAX.	94	1500
SOIL TEMPERATURE, MIN.	58	0500
SOIL TEMPERATURE, MAX.	98	1500
CLOUD COVER, AM	20	0600
CLOUD COVER, PM	25	1500
WIND SPEED, AM	3	0600
WIND SPEED DM	10	1500

WEATHER CONDITION	VALUE	ing Day 2	
AIR TEMPERATURE, MIN.	64	0500	
AIR TEMPERATURE, MAX.	102	1500	
SOIL TEMPERATURE, MIN.	62	0500	
SOIL TEMPERATURE, MAX.	110	1500	
CLOUD COVER, AM	5	0600	
CLOUD COVER, PM	5	1500	
WIND SPEED, AM	2	0600	
WIND SPEED, PM	5	1500	

DATE:06/27/21 ACTIVITY: trapping Day 3		
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	74	0600
AIR TEMPERATURE, MAX.	104	1500
SOIL TEMPERATURE, MIN.	72	0600
SOIL TEMPERATURE, MAX.	110	1500
CLOUD COVER, AM	10	0600
CLOUD COVER, PM	15	1500
WIND SPEED, AM	3	0600
WIND SPEED, PM	8	1500

ATE:06/28/21 ACTIVITY: trapping Day		
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	80	0600
AIR TEMPERATURE, MAX.	107	1500
SOIL TEMPERATURE, MIN.	75	0600
SOIL TEMPERATURE, MAX.	120	1500
CLOUD COVER, AM	15	0600
CLOUD COVER, PM	15	1500
WIND SPEED, AM	2	0600
WIND SPEED, PM	5	1500

DATE:06/29/21 ACTIVITY: trapping Day 5		
WEATHER CONDITION	VALUE	TIME
AIR TEMPERATURE, MIN.	77	0600
AIR TEMPERATURE, MAX.	105	1500
SOIL TEMPERATURE, MIN.	73	0600
SOIL TEMPERATURE, MAX.	110	1500
CLOUD COVER, AM	20	0600
CLOUD COVER, PM	15	1500
WIND SPEED, AM	0	0600
WIND SPEED, PM	10	1500

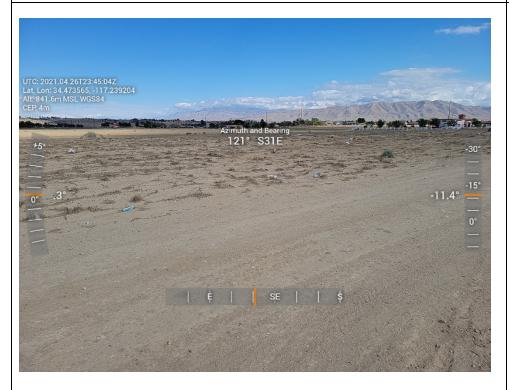
Appendix C: MGS Camera Study Results

Camera Station	Session 1 (04/21/21 to 04/25/21)	Session 2 (05/27/21 to 05/31/21)	Session 3 (06/25/21 to 06/29/21)
1	Spermophilus beecheyi. Ammospermophilus Ieucurus	Spermophilus beecheyi, Ammospermophilus leucurus	Ammospermophilus leucurus, Peromyscus sp., Spermophilus beecheyi, Dipodomys sp.
2	Spermophilus beecheyi Dipodomys sp., Ammospermophilus Ieucurus	Spermophilus beecheyi, Ammospermophilus leucurus	Ammospermophilus leucurus, Peromyscus sp. Spermophilus beecheyi
3	Spermophilus beecheyi	Spermophilus beecheyi, Ammospermophilus leucurus	Ammospermophilus leucurus, Peromyscus sp. Spermophilus beecheyi, Dipodomys sp.
4	Spermophilus beecheyi	Peromyscus sp. Spermophilus beecheyi, Ammospermophilus leucurus	Ammospermophilus leucurus, Peromyscus sp. Spermophilus beecheyi, Dipodomys sp.
5	Spermophilus beecheyi, Ammospermophilus Ieucurus	Spermophilus beecheyi, Ammospermophilus leucurus	Spermophilus beecheyi, Ammospermophilus Ieucurus

Site Photog	graphs	



NE Corner. Facing SW.



NW Corner. Facing SE.



SE Corner. Facing NW.



SW Corner. Facing NE.