

II. GR-14 TERRESTRIAL HABITAT CHECKLIST 17:30
IIA. WOODED

1. Are there any wooded areas at the site? **yes**
2. What percentage of area of the site is wooded? (**60%**; _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
3. What is the dominant type of vegetation in the wooded area? (**Mixed**) Provide a photograph, if available. **(Pictures GR14-5, 6)**
Dominant plant, if known: **Cottonwood, willow, cat's claw**
4. What is the predominant size of the trees at the site? Use diameter at breast height.
6-12 in. > 12 in.
5. Specify type of understory present, if known. Provide a photograph, if available. **Mulefat, tamarisk**

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **yes**
2. What percentage of the site is covered by scrub/shrub vegetation? (**<10%**; _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area. **Visual estimate**
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.
Mulefat, tamarisk
4. What is the approximate average height of the scrub/shrub vegetation? **2-5 ft.**
5. Based on site observations, how dense is the scrub/shrub vegetation? **Sparse**

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **no** If yes, please indicate the type below:
Prairie/plains Savannah Old field other (specify)
2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
4. What is the approximate average height of the dominant plant?
5. Describe the vegetation cover: Dense Sparse Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **no** If yes, identify and describe them below:
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
Mammal burrows in cliff face. (Picture GR14-3)
Tree swallows
Fast flowing braided channel-grass in channel
4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.



GR14-5



GR14-6



GR14-3

II. GR-15 TERRESTRIAL HABITAT CHECKLIST
08:45 (6pic-last of burrows)

IIA. WOODED

1. Are there any wooded areas at the site? **yes**
2. What percentage of area of the site is wooded? (**70%** _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
3. What is the dominant type of vegetation in the wooded area? (**Mixed**) Provide a photograph, if available. (**Photo GR15-1**)
Dominant plant, if known: **Tamarisk with some mesquite and a couple of cottonwoods**
4. What is the predominant size of the trees at the site? Use diameter at breast height. **0-6 in.**
5. Specify type of understory present, if known. Provide a photograph, if available. **Grasses, mesquite**
(**Photo GR15-2**)

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **yes**
2. What percentage of the site is covered by scrub/shrub vegetation? (**40%** _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area. **Visual estimate**
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available. (**Photo GR15-3**)
4. What is the approximate average height of the scrub/shrub vegetation? **> 5 ft.**
5. Based on site observations, how dense is the scrub/shrub vegetation? **Sparse**
(**Photo GR15-4,5**)

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **yes no** If yes, please indicate the type below:
Prairie/plains Savannah Old field other (specify)
2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
4. What is the approximate average height of the dominant plant?
5. Describe the vegetation cover: **Dense Sparse Patchy**

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **no** If yes, identify and describe them below:
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
Mourning dove, American goldfinch, sparrows, swallows
Cottontails burrows, coyote scat, gopher burrows, cow pies (**Photo GR15-6**)
4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.



GR15-1



GR15-2



GR15-3



GR15-4



GR15-5



GR15-6

II. GR-16 TERRESTRIAL HABITAT CHECKLIST 09:21

Moved upstream to be in willow/cottonwood

IIA. WOODED

1. Are there any wooded areas at the site? **yes**
2. What percentage of area of the site is wooded? (**60%** _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
(Photo GR16-Pan)
3. What is the dominant type of vegetation in the wooded area? (**Mixed**) Provide a photograph, if available. **(Photo GR16-3, 4)**
Dominant plant, if known: **Willow, cottonwood, tamarisk**
4. What is the predominant size of the trees at the site? Use diameter at breast height. **> 12 in.**
(Photo GR16-7)
5. Specify type of understory present, if known. Provide a photograph, if available.
Mulefat, mesquite, grasses

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **yes**
2. What percentage of the site is covered by scrub/shrub vegetation? (**30%** _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.
Visual estimate
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.
Mulefat, mesquite (Photo GR16-2)
4. What is the approximate average height of the scrub/shrub vegetation? **> 5 ft.**
5. Based on site observations, how dense is the scrub/shrub vegetation? **Patchy**

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **no** If yes, please indicate the type below:
Prairie/plains Savannah Old field other (specify)
2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
4. What is the approximate average height of the dominant plant?
5. Describe the vegetation cover: Dense Sparse Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **yes** If yes, identify and describe them below: **Wetland-**
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.
soil is saturated with small patches of typha, sedges (Photo GR16-5, 6)
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
**Marsh wren, song sparrow, American goldfinch,
Jerusalem cricket
Gopher, rodent, cows**
4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.



GR16-Pan



GR16-3



GR16-4



GR16-7



GR16-2



GR16-5



II. GR-REF-01 TERRESTRIAL HABITAT CHECKLIST 16:47

IIA. WOODED

1. Are there any wooded areas at the site? **yes** If no, go to Section IIB: Shrub/Scrub
2. What percentage of area of the site is wooded? (**35%** _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
3. What is the dominant type of vegetation in the wooded area? (**Mixed**) Provide a photograph, if available. **(Pictures GR-Ref01-5, 6)**
Dominant plant, if known: **Mesquite, tamarisk**
4. What is the predominant size of the trees at the site? Use diameter at breast height. **6-12 in.**
5. Specify type of understory present, if known. Provide a photograph, if available. **none**

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **no**
2. What percentage of the site is covered by scrub/shrub vegetation? (_____ % _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.
4. What is the approximate average height of the scrub/shrub vegetation?
0-2 ft. 2-5 ft. > 5 ft.
5. Based on site observations, how dense is the scrub/shrub vegetation?
Dense Patchy Sparse

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **yes** If yes, please indicate the type below: **other** (specify) **disturbed**
2. What percentage of the site is open field? (**60%** _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
Mesquite some ruderals and grasses (Picture GR-Ref01-3)
4. What is the approximate average height of the dominant plant? **>6 ft**
5. Describe the vegetation cover: **Patchy**

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **no** If yes, identify and describe them below:
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
Mesquite generation (Picture GR-Ref01-9)
Phainopepla, vermilion flycatcher, American goldfinch, mourning dove
Some rodent burrows
4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.



GR-Ref01-5



GR-Ref01-6



GR-Ref01-3



GR-Ref01-9

IV. GR-REF-01 AQUATIC HABITAT CHECKLIST-FLOWING SYSTEMS 16:35

Note Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type(s) of flowing water system(s) is(are) present at the site? **River**
2. If known, what is the name of the waterbody? **Gila River**
3. For natural systems, are there any indicators of physical alteration (e.g., channeling, debris, etc.)? **no**
4. What is the general composition of the substrate? Check all that apply.
Unknown possibly silt
5. What is the condition of the bank (e.g., height, slope, extent of vegetative cover)?
**Gentle slope covered with grass.
Mulefat and some tamarisk (Picture GR-Ref01-1)**
6. Is the system influenced by tides? **yes no** What information was used to make this determination?
7. Is the flow intermittent? **Unknown** If yes, please note the information that was used in making this determination.
8. Is there a discharge from the site to the waterbody? **Unknown** If yes, please describe the discharge and its path.
9. Is there a discharge from the waterbody? **Unknown** if yes, and the information is available, please identify what the waterbody discharges to and whether the discharge is on site or off site.
10. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected, provide the measurement and the units of measure in the appropriate space below:
30_ Width (ft.)
1.5 Depth (ft.)
fast_ Velocity (specify units):
19.9 Temperature (depth of the water at which the reading was taken)
8.42 pH
11.81 Dissolved oxygen
0.04% Salinity
X _____ Turbidity (turbid) (Secchi disk depth)
_____ Other (specify)
11. Describe observed color and area of coloration.
12. Is any aquatic vegetation present? **No**
13. Mark the flowing water system on the attached site map.
14. What observations were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?
**Water up to grass, small shrub (Picture GR-Ref01-2)
American goldfinch, marsh wren, tree swallow
Cows no other sign observed**



GR-Ref01-1



GR-Ref01-2

III. SPR-01 AQUATIC HABITAT CHECKLIST-NON-FLOWING SYSTEMS 14:15
32-58'22.5 / 110-46'02.4

Note Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type of open-water, non-flowing system is present at the site? Non flowing river Natural (pond, lake). Artificially created (lagoon, reservoir, canal, impoundment) **Small pools**
(Pictures SPR01-1, 2)
2. If known, what is the name(s) of the waterbody(ies) on or adjacent to the site? **San Pedro River**
3. If a waterbody is present, what are its known uses (e.g.: recreation, navigation, etc.)?
4. What is the approximate size of the waterbody(ies)? **_small pools_** acre(s)
(Pictures SPR01-1, 2)
5. Is any aquatic vegetation present? **yes** If yes, please identify the type of vegetation present if known.
Grasses / ruderal in streambed
6. What is the general composition of the substrate? Check all that apply. **Sand (coarse)**
8. What is the source of water in the waterbody? **River**
9. Is there a discharge from the site to the waterbody? **no** If yes, please describe this discharge and its path.
10. Is there a discharge from the waterbody? **Unknown** If yes, and the information is available, identify from the list below the environment into which the waterbody discharges.

River/Stream/Creek	onsite	offsite	Distance
Groundwater	onsite	offsite	
Wetland	onsite	offsite	Distance
Impoundment	onsite	offsite	
11. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected, provide the measurement and the units of measure below:
None taken
____ Area
____ Depth (average)
____ Temperature (depth of the water at which the reading was taken) ____
____ pH
____ Dissolved oxygen
____ Salinity
____ Turbidity (clear, slightly turbid, turbid, opaque) (Secchi disk depth ____)
X Other (specify) small pools
12. Describe observed color and area of coloration.
13. Mark the open-water, non-flowing system on the site map attached to this checklist.
14. What observations, if any, were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?
Vermillian flycatcher (Picture SPR01-6), American goldfinch, song sparrow
Beetles in pools



SPR01-1



SPR01-2



SPR01-6

II. SPR-02 TERRESTRIAL HABITAT CHECKLIST 15:00
IIA. WOODED

1. Are there any wooded areas at the site? **yes** If no, go to Section IIB: Shrub/Scrub
2. What percentage of area of the site is wooded? (**20%**; _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
3. What is the dominant type of vegetation in the wooded area? (**Mixed**) Provide a photograph, if available.
Dominant plant, if known: **Tamarisk with some small cottonwood**
4. What is the predominant size of the trees at the site? Use diameter at breast height. **0-6 in.**
5. Specify type of understory present, if known. Provide a photograph, if available. **Tamarisk and some cat's claw (Picture SPR02-2)**

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **yes** If no, go to Section IIC: Open Field
2. What percentage of the site is covered by scrub/shrub vegetation? (**60%**; _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area. **Visual estimate**
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available. **Tamarisk and cat's claw (Pictures SPR02-4, 5)**
4. What is the approximate average height of the scrub/shrub vegetation? **2-5 ft**
5. Based on site observations, how dense is the scrub/shrub vegetation? **Dense Patchy**

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **no** If yes, please indicate the type below:
Prairie/plains Savannah Old field other (specify)
2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
4. What is the approximate average height of the dominant plant?
5. Describe the vegetation cover: Dense Sparse Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **no** If yes, identify and describe them below:
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
Common raven, cliff swallows
no burrows
4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.



SPR02-2



SPR02-4



SPR02-5