

**ANNUAL REPORT**  
**2006**  
**Roosevelt Habitat Conservation Plan**  
**Salt River Project**



**PREPARED FOR:**

U.S. Fish and Wildlife Service  
Arizona Ecological Services Field Office  
2321 W. Royal Palm Road, Suite 103  
Phoenix, Arizona 85021-4951

**PREPARED BY:**

Salt River Project  
Environmental Services Department  
PAB 352  
P.O. Box 52025  
Phoenix, Arizona 85072-2025



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\* Locations of endangered species are sensitive data considered confidential by U.S. Fish and Wildlife Service and therefore are omitted from this report. Management agencies requiring this information can contact SRP or the Arizona Ecological Field Services Office of U.S. Fish and Wildlife Service to receive this information.

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## CERTIFICATION

Under penalty of law, I certify that, to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this report, the information submitted is true, accurate, and complete.

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Ruth A. Valencia

Date

Sr. Environmental Scientist  
Siting and Studies  
Salt River Project

## **I. INTRODUCTION**

In February 2003, the U.S. Fish and Wildlife Service (FWS) issued an Incidental Take Permit (ITP) pursuant to Section 10(a)(1)(B) of the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended, to Salt River Project (SRP) for southwestern willow flycatcher (*Empidonax traillii extimus*) (flycatcher), yellow-billed cuckoo (*Coccyzus americanus*) (cuckoo), bald eagle (*Haliaeetus leucocephalus*) and Yuma clapper rail (*Rallus longirostris yumanensis*) (clapper rail). The activity covered by the ITP is the continued operation by SRP of Roosevelt Dam and Lake up to an elevation of 2,151'. The ITP is conditioned upon SRP's implementation of the Roosevelt Habitat Conservation Plan ("Roosevelt HCP") (Salt River Project 2002).

The Roosevelt HCP provides measures to minimize and mitigate incidental take of the four species listed above "to the maximum extent practicable and ensures that incidental take will not appreciably reduce the likelihood of the survival and recovery of these species in the wild" (FWS 2002). Mitigation efforts focus primarily on the acquisition and management of riparian habitat. Additional habitat conservation measures include the protection and management of habitat at Roosevelt Lake, acquisition of water rights for maintenance of riparian habitat and acquisition of buffer lands to benefit riparian habitat.

## **II. ANNUAL REPORTING COMPLIANCE**

*Obligation:* SRP is required to submit an annual report to FWS, Reclamation and the Tonto National Forest describing all Roosevelt HCP activities occurring during the past year. A draft report must be sent to FWS prior to the annual meeting in October/November of each year. The report is to be finalized by February 1<sup>st</sup> of the following year.

*Actions:* SRP submits this report to the FWS, Bureau of Reclamation (BR) and the Tonto Basin District Office of the Tonto National Forest (TNF) to fulfill the annual reporting requirement. The report covers all activities relating to the Roosevelt HCP from November 1, 2005 through October 31, 2006, including a summary of reservoir operations, management activities, monitoring results, status reports and planned future activities.

## **III. ROOSEVELT LAKE AREA COMPLIANCE**

### **A. Summary of Reservoir Operations - Water Year 2006**

The continuing drought and maintenance work at Horse Mesa Dam provided the largest influence on operations at Roosevelt Dam. It was a tale of two seasons this year on the Salt and Verde Watersheds. Winter precipitation resulted in some of the lowest runoff totals in SRP's history. However, a fruitful monsoon out-produced the winter runoff and provided some relief for the reservoir system. Maintenance requirements forced SRP to hold more water than normal in Roosevelt Lake for the duration of the project. The good news is that for the prime winter months of January through March, Arizona is forecast to have a better chance of above normal precipitation, a result of the El Nino in the Pacific.

*Winter Precipitation:* Cool sea surface temperatures in the equatorial Pacific indicating weak-to-moderate La Nina conditions within the Southern Oscillation became apparent during late autumn and early winter of 2005. This reversal from weak El Nino conditions the previous year

combined with relatively cool sea surface temperatures in the northeast Pacific to produce persistent high pressure over the Southwest United States. With the main winter storm track deflected and held north of Arizona from mid-October through February, no significant precipitation was recorded across the Salt/Verde Watershed during this period. One significant storm system and a few minor disturbances affected the state in March, but combined they only pushed the watershed's average precipitation total for the water year to 3.37" by the end of March which is 29% of normal and among the driest winter totals on record. (see graph).

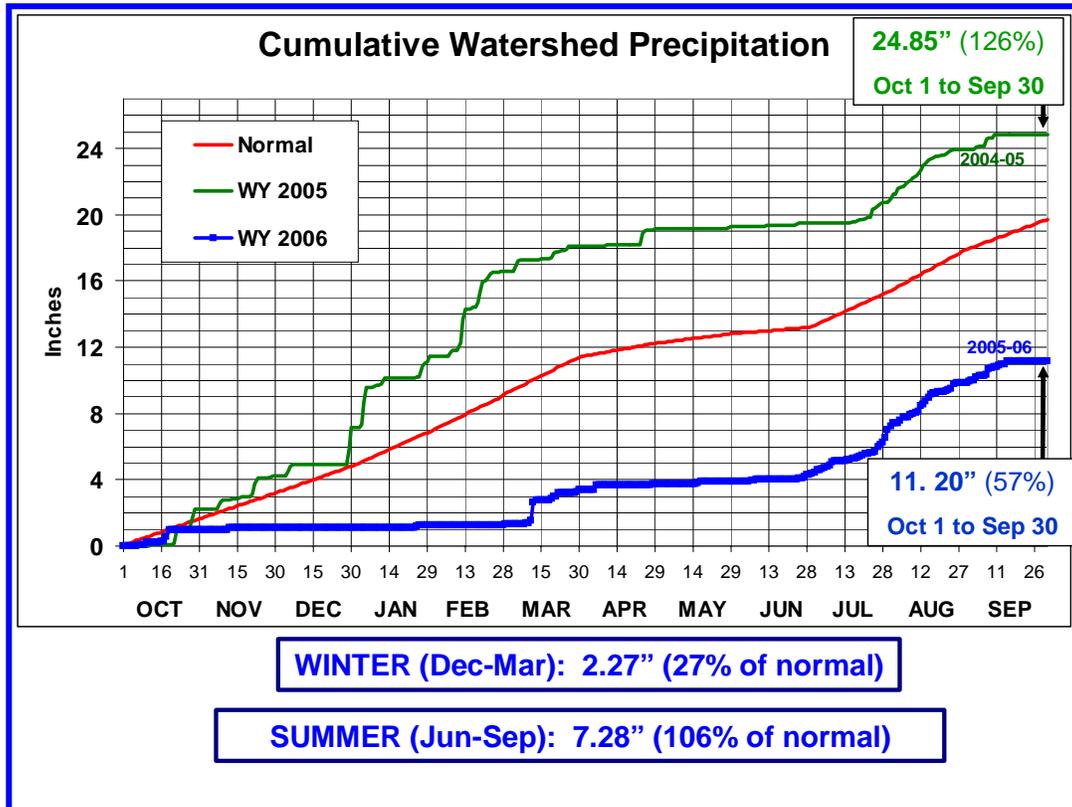
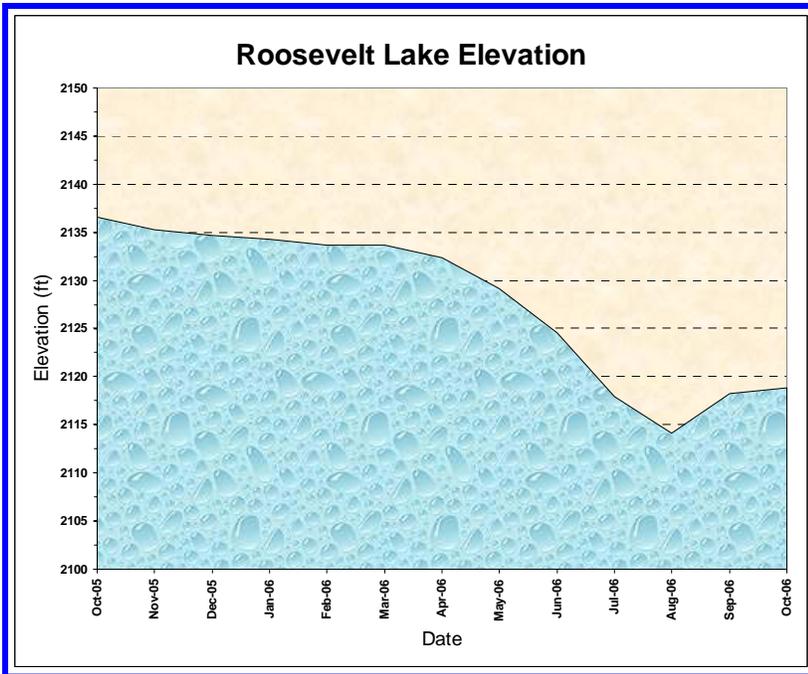


Figure 1. Cumulative watershed precipitation by month, October 2005 - September 2006

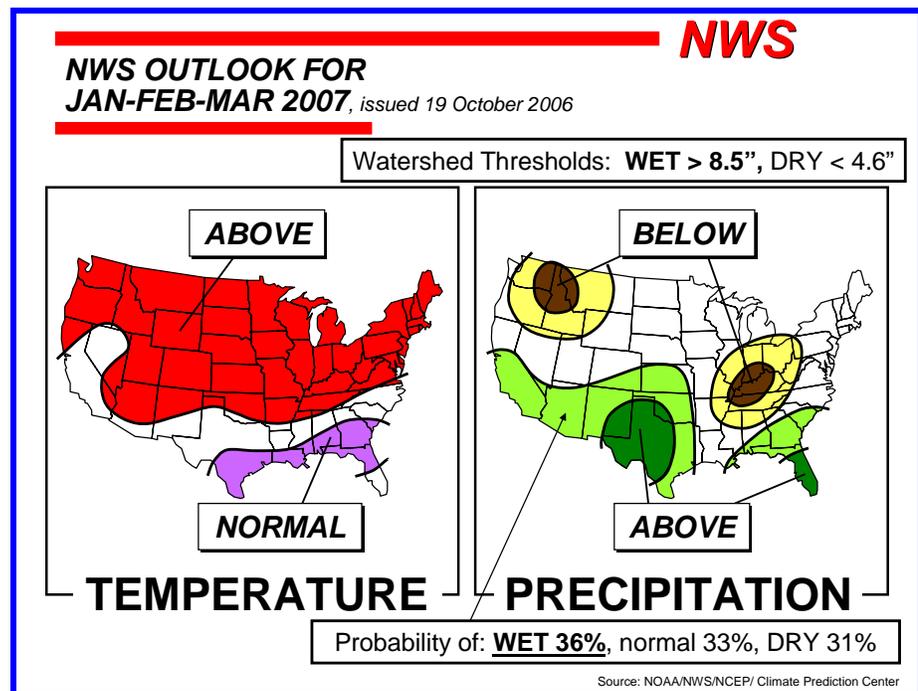
*Summer Precipitation:* The Monsoon of 2006 began several days earlier than normal in mid/late June when winds aloft over the Southwest United States shifted from westerly to easterly and became favorable for importing moisture into the state. Although the pattern over the region and location of the "monsoon" high pressure system varied throughout the summer, the flow of moisture northwards from Mexico was almost uninterrupted through late August. As a result, at least parts of the watershed recorded precipitation on most days during the summer, and widespread, significant precipitation was observed on several days. By the latter part of August, the monsoonal pattern over the Southwest United States began to break-down, but a succession of low-pressure systems tracking over the Great Basin kept precipitation occurring on the Salt/Verde watershed until mid-September. The watershed average precipitation total from June through September, was 7.28" or 106% of normal which helped bring the water year total (October 1, 2005 through September 30, 2006) to 11.20" or 57% of normal.



*Reservoir Status:* Reservoir storage decreased slowly through the winter months due to our dismal winter precipitation (see graph). The watershed produced only 121,000 acre feet, making this season the 2<sup>nd</sup> driest ever recorded in terms of runoff. The total ranks just above the record low of 106,000 acre feet recorded in 2002. The monsoon storms provided some welcomed relief this summer with an increase of 98,000 acre feet in system-wide storage. This unusual occurrence caused a rare summer increase in storage elevation at Roosevelt Lake.

**Figure 2. Roosevelt Lake elevation, October 2005 – September 2006**

*Reservoir Operations:* SRP is executing a maintenance project at Horse Mesa Dam. The Bureau of Reclamation requires regular inspections and repair, if necessary. The project will result in lower levels at Apache Lake for fall 2006 through January 2007. On August 21<sup>st</sup>, the majority of the water order was released from the Salt System and will continue until the target lake level is reached. The target is expected to be reached in early November. From November through January 2007, the majority of the release will be shifted to the Verde System. The maintenance requirements will cause a slight increase in Roosevelt Lake elevation through October. Normal winter operations will



**Figure 3. National Weather Service outlook for winter 2007**

resume once the project is completed. Roosevelt Lake water will be used to refill Horse Mesa Reservoir and Roosevelt Lake is expected to drop about 4 feet during the refill.

Even with the low runoff, reservoir storage is still sufficient to maintain full allocation of 3.0 acre feet per acre. The water order will be met with surface water and an increase in pumping.

*Weather Outlook:* The Climate Prediction Center of the National Weather Service believes the current weak El Niño will hold through the winter and their odds continue to slightly favor a wetter than normal winter for the Valley and the watershed: for January through March, a 36 percent chance of above normal, a 33 percent of near normal and a 31 percent chance of below normal precipitation on the watershed (see figure 3). Given the current El Niño status, historic watershed records (1949-2005) indicate that out of 16 similar years, only 13 percent (2) of the winters have been dry, 31 percent (5) have had near-normal precipitation, and 56 percent (9) were in the wettest third.

## **B. Incidental Take Permit (ITP) Compliance Monitoring**

The Roosevelt HCP states that SRP will periodically collect and evaluate information on occupied habitats and population status of flycatchers, clapper rails, cuckoos and bald eagles at Roosevelt Lake to monitor compliance with the ITP. Vegetation monitoring is to be conducted to ensure that adaptive management thresholds or permit limits are not exceeded. In addition, populations of flycatchers, cuckoos and rails will be monitored for ITP compliance and to identify long-term trends using appropriate field survey techniques or protocols.

### **1. Habitat Monitoring**

- a. Obligation:* Lake levels will be monitored to determine whether impacts exceed 750 acres of occupied habitat.

*Action:* SRP monitored lake levels throughout the year. Impacts to occupied habitat did not exceed 750 acres. See figure 2 for lake elevations.
- b. Obligation:* Prior to 2007, SRP will develop a method to estimate tall, dense vegetation likely to be occupied by flycatchers using the relative density of vegetation on satellite images.

*Action:* Discussions regarding development of methodology are ongoing. Landsat satellite imagery will be used to determine the relative density of vegetation at the Salt River and Tonto Creek arms of Roosevelt Lake in 2007.
- c. Obligation:* Surveys for flycatchers, cuckoos and clapper rails will be conducted to determine ITP compliance.

*Action:* No surveys were conducted by SRP in 2006. Flycatcher surveys were conducted by AGFD with funding from Reclamation. See Table 1 for flycatcher survey results.

- d. *Obligation:* The extent of cattail marshes will be monitored by helicopter survey each year that more than 3 acres of marsh exist below elevation 2,151 feet.

*Action:* Marsh habitat was inundated during the 2006 breeding season.

## 2. Bird Species Monitoring Results, Roosevelt Lake

### a. Southwestern willow flycatcher

*2006 Breeding Season.* AGFD survey data collected in 2006 indicate that Roosevelt Lake supported an estimated flycatcher population of 200 adults. AGFD biologists detected a total of 110 territories: 60 at the Salt River inflow and 50 at the Tonto Creek inflow. AGFD reported an estimated 94 pairs and 115 nests.

**Table 1. Comparison of flycatcher numbers and nesting success 2003 – 2006, Roosevelt Lake**

Roosevelt Lake: Salt River	2003	2004	2005	2006
Territories	111	140	65	50
Adults	210	253	118	92
Pairs	101	118	53	43
Nests	118	120	58	47
Mayfield Nest Success	63%	39%	36.6%	55%
Number of young fledged	178	98	60	48
Roosevelt Lake: Tonto Creek				
Territories	23	69	84	60
Adults	45	121	159	108
Pairs	22	52	75	51
Nests	26	60	80	68
Mayfield Nest Success	53%	17%	38.1%	33%
Number of young fledged	40	19	82	40
Totals				
Territories	134	209	149	110
Adults	255	374	277	200
Pairs	123	170	128	94
Nests	144	180	138	115
Mayfield Nest Success	61.3%	31.9%	37.5%	42%
Number of young fledged	218	117	142	88

Source: AGFD unpublished preliminary data; Munzer, O. et al. (2005); Smith, A. et al. (2004).

*2007 Breeding Season.* Based on an evaluation of vegetation condition, lake elevation forecasts and 2006 occupied habitat, SRP will not be conducting flycatcher surveys at Roosevelt Lake in 2007 (see SRP 2002:162).

*b. Yellow-billed cuckoo*

*2006 Breeding Season.* Cuckoo surveys were not conducted at Roosevelt Lake in 2006. Baseline surveys were conducted in 2003, 2004 and 2005.

*2007 Breeding Season.* Based on an evaluation of vegetation condition, lake elevation forecasts and 2006 occupied habitat, SRP will not be conducting cuckoo surveys at Roosevelt Lake in 2007 (see SRP 2002:163).

*c. Yuma clapper rail*

*2006 Breeding Season.* Because lake elevations remained high in 2006 inundating cattail marsh habitat on the Tonto Creek arm, surveys were not conducted in 2006 (SRP 2002:163).

*2007 Breeding Season.* SRP will continue to monitor lake elevations during the winter of 2007. Depending on lake elevations, a helicopter survey may be conducted prior to Yuma clapper rail breeding season to determine if more than 3 acres of cattail marsh exist below elevation 2,151 feet. (SRP 2002:161)

**3. Bald Eagle Program**

- a. Obligation:* SRP is required to provide annual funding for a pair of seasonal bald eagle nestwatchers through an existing Arizona Bald Eagle Nestwatch Program.

*Action:* In April 2006, a payment of \$15,000 was made to AGFD to fund a pair of nestwatchers for the breeding season.

- b. Obligation:* Each year, SRP will assist with three Occupancy and Reproduction Assessment and nest search helicopter events and will provide funding for coordination and attendance by existing bald eagle management personnel.

*Action:* SRP provided five flights totaling \$9,720 worth of helicopter service to the AGFD during this period.

- c. Obligation:* SRP will provide a maximum of three annual helicopter flights for rescue or management efforts.

*Action:* No rescue efforts occurred during this reporting period.

- d. Obligation:* SRP will develop a coordinated plan with AGFD and FWS to rescue any bald eagles, eggs or nestlings at Roosevelt Lake that may be threatened by rising reservoir levels. Implementation will begin within 2 years of permit issuance (2005) and will last for the duration of the permit.

*Action:* Notification plan and protocols were updated in the SRP-160 Emergency Reservoir Operations Manual.

*2006 Breeding Status.* AGFD monitors bald eagle productivity at five breeding areas associated with Roosevelt Lake. The results of the 2006 breeding season are shown in

Table 3. Four eaglets fledged from 2 of the breeding areas this year. The Dupont breeding area has been unoccupied for the past 3 years. This year, the Rock Creek area was also unoccupied. According to AGFD, only one of the 2 eggs hatched at the Pinal area and that nestling disappeared from the nest at 5 weeks old.

**Table 2. Comparison of bald eagle breeding productivity, 2004 - 2006, Roosevelt Lake**

Breeding Area	2004		2005		2006	
	# of Eggs	# Fledged	# of Eggs	# Fledged	# of Eggs	# Fledged
Dupont @ Sierra Anchas	0	0	0	0	0	0
Pinal	1+	1	2	2	2	0
Pinto	2+	2	2+	2	2+	2
Rock Creek @ Four Peaks	1+	0	1+	1	0	0
Tonto	2+	2	1+	1	2+	2
<b>TOTALS</b>	<b>6+</b>	<b>5</b>	<b>6+</b>	<b>6</b>	<b>6+</b>	<b>4</b>

Source: Unpublished data, Southwest Bald Eagle Management Committee, AGFD

**E. Tonto Forest Protection Officer (FPO)**

*Obligation:* SRP will fund a Forest Protection Officer to protect, enhance and manage habitat at Roosevelt Lake in support of the Roosevelt HCP, including posting and maintaining signs and fences in restricted areas, contacting individuals found in those areas and issuing citations, public education and planning and implementing management activities in regard to threatened and endangered species.

*Actions:* The following activities were accomplished in the past year on this site.

**ENFORCEMENT ACTIVITIES**

In March 2006, Amyann Madara-Yagla became a qualified FPO. She reported the following activities related to FPO enforcement at Roosevelt Lake during this time period.

Meddler Point was not an area of huge concern this year. One group was contacted in the closure area, with two citations being issued. There is still minimal activity, mostly after dark. On average, fresh tracks are found leading into the closure area once a month. Attempts to issue citations at this point have been fruitless. Fortunately, the most popular road out to Cottonwood Acres and the vicinity of the Pinto bald eagle nest has been blocked by fallen cottonwoods and other vegetation. There are still plans to put a swinging gate on FR 333 (Meddler Point) that will allow access for a local land owner and other authorized vehicles.

There is still an ongoing problem with the vicinity of Pinto Creek and the Roosevelt Mound. Its close proximity to the populated Roosevelt Estates area makes it rather difficult to patrol and easily accessible to motorized vehicles. ATV riders are the primary

violators, often times the signs are removed or have been run over by people. As of the middle of October, nine citations have been issued to individuals in the Pinto Creek and ATV Hill area.

There are several “Ghost Roads” on the Salt Arm of the wildlife closure that are being fenced off and/or permanently signed to discourage access by motorized vehicles. These roads are not listed on any maps and have no set destinations. One of these gates has had the lock broken on it three times in the last year. There are still people driving around or past signs that state “No Vehicles.”

A total of three citations were issued in the Schoolhouse Point vicinity. One was for driving into the restricted area and the other two were for having fires. One individual had boated in, tied their boat to a “No Campfire” sign and proceeded to build a fire within 20 feet of the sign.

A boulder barricade was placed around the parking lot at Orange Peel recreation area. This provides a parking area and allows people to walk down to the waters edge for fishing opportunities. Only one citation has been issued at Orange Peel for an individual that squeezed through the boulders in an area where someone else had moved a boulder.

Other citations were issued around the Salt River vicinity, from the Diversion dam down to the “Old Haul Road” off of FR 397. Six citations have been written to individuals who had driven into closure areas or were off roads. Two have been written to individuals for having fires during seasonal fire restrictions and three have been written for littering. Six warning notices have also been issued for failing to properly dispose of garbage. Garbage bags are handed out to forest users in an effort to help with the amount of litter and to provide a means of contact.

Signs and fences around restricted areas continue to be maintained as individuals and natural events (such as high water flows in Pinto Creek) remove and damage these items. Fences on both ends of the 76 Bald Eagle Closure area were cut during the hunting season. Occasional patrolling was done in the vicinity during hunting season, with plans to increase patrols this year.

#### *Bald Eagle Nesting*

Over all, violations of the closure areas seem to be reduced. This is likely due to the increased patrols and citations being issued.

*Tonto Nest:* As the lake level was lower this year then last, buoys were not used, but eagle closure signs were placed around the nesting area. The nestwatchers at the Tonto nest had multiple individuals briefly violate the eagle closure area and the willow flycatcher restricted area, but none were contacted. Much like last year the nest watchers on the Tonto Creek arm found that the eagles did not seem bothered by boating activities that took place near their nest. But when ultra lights and powered paragliders would fly over, the adults would often become distressed and leave the nest for a brief period of time.

*Pinto Nest:* The nestwatchers at Pinto indicated that they had very few violations of the closure area, though they had very strange encounters with other forest users. Boaters also had more difficulty reaching the nesting area as the water receded.

#### *Outreach activities*

In April a power point presentation was held for forest visitors. The topics were an overview of wildlife on the Tonto Basin Ranger District and an explanation as to why there are certain restrictions in the flycatcher breeding areas. Attendance was low. We hope that future endeavors will prove more successful.

Outreach activities were held at the two Miami School Science and Math Nights, which included educating more than 150 children of all ages. Activities were also held at the Tonto Basin School for Kindergarten through 5<sup>th</sup> graders to increase their awareness of the Sonoran Desert habitat and riparian areas. An interactive program with a conservation theme was held for approximately 120 fourteen and fifteen year olds at the annual "Fishing With an Attitude," an event for disadvantaged teens from Gila County. In October, a basic nature program was held at the Grapevine Group campsite area for approximately 50 Cub Scouts and their parents, many of whom had never been camping before.

#### *Monitoring Activities*

Throughout the 2006 field season, Madara-Yagla assisted AGFD with surveys and monitoring at Roosevelt Lake.

### **F. Rockhouse Riparian Demonstration Project**

*Obligation:* SRP will develop a pilot project to establish and manage approximately 15 acres of riparian vegetation suitable for the listed and candidate species encompassed by the Roosevelt HCP on the Salt arm of Roosevelt Lake.

*Actions:* The following activities were accomplished in the past year on this site.

#### *Phase III Planting Activities*

In April 2006, 1345 coyote willow (*Salix exigua*) and 1345 seep willow (*Baccharis salicifolia*) poles were planted in the fields to fill in some of the spaces between Fremont cottonwood and Goodding's willow trees. The objective of this planting is to create a dense understory at the site, emulating willow flycatcher nesting habitat.

Seep willow was harvested from Tres Rios on the Salt River and coyote willow was harvested from the Verde River. Poles were cut into 2 foot sections and kept moist in burlap sacks until planting. Planting locations were first cleared of vegetation (forbs, grasses). Then, pole sections were laid horizontally on the ground and stapled into place using a large pneumatic staple gun. Fields were irrigated following planting and at 2 to 3 day intervals to keep pole sections moist. Seep willow was the first to sprout, many after only 2 weeks. Coyote willow appeared to take slightly longer to sprout. Each pole section produced multiple shoots. By the end of the growing season, both seep willow and coyote willow shoots ranged from 2 to 4 feet tall.

Survival of pole sections varied across the site. Some locations proved to be too wet, others too dry. SRP did not attempt to quantify survival because many of the pole sections were buried from repeated irrigations and the production of multiple shoots made it impossible to determine how many individual sections survived without disturbing the plants. However, our overall objective is to increase the density of vegetation on the site. In time, we will be able to determine whether this type of planting is an effective method to achieve that goal.

*Tree Monitoring Results*

Growth rates were measured on a subset of trees. Average heights and growth rates for trees planted in both 2004 and 2005 are presented in Tables 4 and 5.

**Table 3. Average height of selected trees, 2004 – 2005 comparison, Rockhouse Project**

	2004 Planting (feet)	2005 Planting (feet)
Avg. Initial Height	1.8	2.1
End of 1 <sup>st</sup> growing season	5.9	5.1
End of 2 <sup>nd</sup> growing season	9.4	9.8
End of 3 <sup>rd</sup> growing season	15.5	n/a

**Table 4. Average growth of selected trees, 2004 – 2005 comparison, Rockhouse Project**

	2004 Planting (feet)	2005 Planting (feet)
1 <sup>st</sup> growing season	4.1	3.1
2 <sup>nd</sup> growing season	5.1	4.5
3 <sup>rd</sup> growing season	4.7	n/a
Total growth - Initial to October 2006	14.6	7.3

*Maintenance Activities*

- SRP contracted with Tim Wheeler, former owner of the property, to conduct irrigation and site maintenance. Mr. Wheeler lives adjacent to the site.
- SRP’s Northside Water Construction and Maintenance crews conducted the following maintenance activities:
  - Dredging sediment from the river intake;
  - Clearing sediment from the irrigation ditch;
  - Recontouring the ditch outflow to the river and installing erosion control fabric;
  - Recontouring one of the fields to improve drainage.
- SRP’s Groundwater Division conducted the following maintenance activities:
  - Applying herbicide to select tamarisk plants to prevent shading of newly planted cottonwoods and willows;
  - Spraying herbicide on weeds along the unlined irrigation ditch;

- Spraying pesticide on select trees to control a late season caterpillar infestation in the fall of 2005.

#### **G. Wetland Creation, Arlington Wildlife Management Area (WMA)**

*Obligation:* SRP is required to develop 5 acres of cattail wetlands suitable for Yuma clapper rail habitat.

*Action:* The following activities were accomplished in this past year.

SRP entered into an agreement with Ducks Unlimited, Inc. and AGFD for the design and construction of a 5-acre wetland at the Arlington WMA in August 2005. DU designed the project and served as general contractor and project manager for construction.

Construction drawings and budgets were finalized in November 2005. SRP incurred all costs of construction and operation for the new wetland.

Construction was initiated on the combined pond refurbishment and clapper rail habitat construction project at the Arlington Wildlife Area in January of 2006. The construction was completed by the end of February 2006. Partney Construction acted as project contractor under the direction of Chris Christiansen, project manager and engineer for Ducks Unlimited. Water control structures were installed to more precisely control water levels and delivery and to allow input of water from the existing well to all wetland cells, including the SRP wetland. SRP crews did a complete analysis and refurbishment of the on-site well. The project was completed on time, with strict compliance with the terms of the Army Corps of Engineers 404 permit and other regulatory restrictions. SRP and AGFD hosted a ribbon-cutting ceremony on April 7, 2006 to recognize the cooperative efforts that resulted in a successful project.

SRP and AGFD entered into a cost-share agreement outlining operation, maintenance and financial responsibilities for the site. AGFD will operate and maintain the wetland for SRP. Management activities at the new SRP wetland during 2006 include:

- Filling the cell with water and subsequently drawing it down repeatedly to seal the bottom of the cell. The cell has sealed well, with no excessive water requirements due to seepage.
- Removal of tamarisk seedlings and other undesirable vegetation around the newly disturbed fringes of the cell. The work was done by hand by an inmate crew from Lewis prison under the direction of the AGFD Wildlife Area Manager and occurred at least twice with additional treatments planned for winter 2007.
- Installation of a small number of cattail and bulrush plants transplanted from on site. These have survived and multiplied at the new wetland.

Wildlife habitat values at the new cell are unsuitable at this time for clapper rail breeding. Many ducks, shorebirds, and terrestrial wildlife have been observed already at the newly created wetland basin. Clapper rails were surveyed at Arlington this year by AGFD and Audubon. Despite the large-scale habitat disturbance from construction activities, four (4) clapper rails were found at the site in the two existing wetlands immediately adjacent to SRP's new wetland. Clapper rail habitat is expected to develop quickly with the planting of cattails and bulrushes in the new wetland

basin during the winter/spring of 2007. Other species found in the area after construction include Least bitterns, Virginia rails, Pied-billed grebes, Common moorhens, Great egret, Black-necked stilts, Killdeer and American coots.

#### **IV. STATUS OF MITIGATION PROPERTY ACQUISITIONS**

*Obligations:* SRP must acquire and manage at least 1500 acres of riparian habitat by fee title or conservation easements. “Other” habitat conservation measures in an amount equivalent to 750 acres must also be implemented. The “Other” category includes (1) acquisition and management of upland buffers, (2) stream flow augmentation through purchase of water rights, (3) funding a Forest Protection Officer at Roosevelt Lake, and (4) other measures as approved by FWS.

*Actions:* The following activities were accomplished in this past year.

As of October 31, 2006, SRP accrued 2,315 acre-credits, exceeding the 2,250 acre-credit goal (Tables 9 & 10). An additional 300 acres of habitat are in escrow. Activities of note include the following:

- SRP completed all mitigation obligations by the Phase 3 deadline date of February 26, 2006.
- SRP partnered with Reclamation on the acquisition of the 280-acre Hancock property on the Gila River near Fort Thomas. Reclamation acquired the property and SRP will provide for long-term management. The same arrangement is being applied to the acquisition of the Bellman property (250 acres) on the Gila River and the Doherty-Smith properties (50 acres) on the San Pedro River. These properties are currently in escrow.
- SRP completed construction of a 5-acre wetland for clapper rail mitigation at AGFD’s Arlington WMA.

**Table 5. RHCP obligations (acre-credits)**

	<b>Habitat</b>	<b>Other</b>	<b>Total</b>
Phase 1 (by 2/26/05)	500	250	750
Phase 2 (by 8/26/05)	500	250	750
Phase 3 (by 2/26/06)	500	250	750
<b>Required Totals</b>	1500	750	2,250
<b>Actual Totals</b> (as of 10/31/06)	1586	719	2305

**Table 6. Status of mitigation acre-credits by property:**

	Phase 1		Phase 2		Phase 3		Mitigation Acre-credit Totals
	Habitat	Other	Habitat	Other	Habitat	Other	
Verde River:							
Camp Verde Preserve			124				124
San Pedro River:							
San Pedro Preserve	403	220					623
Adobe Preserve	54	77					131
Black Farm Preserve	30	65					95
Stillinger Trust			26	14			40
Spirit Hollow			105	39			144
Doherty/Smith (in escrow)					50	0	50
Gila River:							
McEuen, G.			304	4			308
Phelps Dodge					250	0	250
BR/Hancock					280	0	280
BR/Bellman (in escrow)					250	0	250
Other:							
Rockhouse			15				15
Arlington Wetland					5		5
Roosevelt Forest Protection Officer				300			300
<b>Total Acquired to Date:</b>	<b>487</b>	<b>362</b>	<b>574</b>	<b>357</b>	<b>535</b>	<b>0</b>	<b>2,315</b>
<b>In Escrow:</b>					<b>300</b>	<b>0</b>	<b>300</b>

## V. MITIGATION PROPERTIES – Monitoring and Management

### A. Monitoring Obligations

SRP monitors both the bird species of interest as well as habitat condition on each of the mitigation properties. Monitoring obligations for each property are detailed in the HCP document and are summarized briefly below.

- Flycatcher and cuckoo populations will be surveyed in the first two years following acquisition of a property for purposes of establishing a baseline. After that, surveys will be conducted every other year on average, but not less than every third year. The specific frequency of survey for each site is to be determined during the annual meeting.
- Monitoring of clapper rails and marsh conditions at the Arlington site will be coordinated with AGFD.
- A baseline inventory will be completed for each property within one year of acquisition. This inventory will be used to compare habitat changes over the life of the permit.
- Aerial photography will be acquired to establish a vegetation/habitat baseline and will be retaken every 5 years or when vegetation is altered by a catastrophic event.
- Permanent photo points will be established and retaken annually to monitor habitat condition.

The following tables summarize the monitoring activities on SRP’s mitigation properties from 2003 through 2006. Also included are activities projected for 2007.

**Table 7. Flycatcher survey schedule**

	Close of Escrow. Date	2003	2004	2005	2006	2007
<b>SAN PEDRO</b>						
Adobe	Sep-02	BR/GF*	BR/GF*	BR/GF		
Stillinger	Jun-04	BR/GF	BR/GF	BR/GF*	SRP*	
Spirit Hollow	Jul-04	BR/GF	BR/GF	BR/GF*	SRP*	
Smith-Doherty	In escrow					
<b>VERDE</b>						
Camp Verde	Jan-04		SRP*	SRP*		SRP
<b>GILA</b>						
McEuen	Aug-04			SRP*	SRP*	SRP
PD CE	Feb-05			SRP*	SRP*	SRP
BR/Hancock	Oct-05				SRP*	SRP*
Bellman	In escrow <sup>1</sup>					SRP*
<b>ROCKHOUSE</b>						
	n/a					
* Indicates baseline surveys						
<sup>1</sup> Surveys will be conducted if property closes escrow prior to breeding season.						

In 2007, SRP will be conducting flycatcher surveys at the Camp Verde Riparian Preserve on the Verde River and at the Fort Thomas Preserve on the Gila River. The Bellman property, which is being acquired by Reclamation, will be included in the 2007 surveys if the acquisition is completed prior to the breeding season.

Cuckoo surveys will be conducted on the same properties as flycatcher surveys in 2007.

**Table 8. Yellow-billed cuckoo survey schedule**

	<b>Close of Escrow Date</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
<b>SAN PEDRO</b>						
Adobe	Sep-02	X*	X*	X		
Stillingner	Jun-04			X*	X*	
Spirit Hollow	Jul-04					
Skeen parcel	Aug-03		X*	X*	X	
Sonberg parcel	Jul-04			X*	X*	
Smith-Doherty parcel	In escrow					
<b>VERDE</b>						
Camp Verde	Jan-04		X*	X*		X
<b>GILA</b>						
McEuen	Aug-04			X*	X*	X
PD CE	Feb-05			X*	X*	X
BR/Hancock	Oct-05				X*	X*
BR/Bellman	In escrow <sup>1</sup>					X*
<b>ROOSEVELT</b>						
	n/a	X*	X*	X		
<b>ROCKHOUSE</b>						
	n/a					
* Indicates baseline surveys						
<sup>1</sup> If property closes escrow prior to breeding season.						

**Table 9. Habitat monitoring schedule**

	2002	2003	2004	2005	2006	2007
SAN PEDRO						
<i>Adobe</i>						
Photopoints		X	X	X	X	X
Aerial photos		X				
<i>Stilling</i>						
Photopoints				X	X	X
Aerial photos		X				
<i>Spirit Hollow</i>						
Photopoints				X	X	X
Aerial photos		X				
VERDE						
<i>Camp Verde</i>						
Photopoints				X	X	X
Aerial photos	X		X		X	
GILA						
Photopoints						X
Aerial photos					X	
ROCKHOUSE						
Photopoints			X	X	X	X
Vegetation monitoring			X	X	X	X
ARLINGTON						
Photopoints						X
Vegetation monitoring						X

**Table 10. Summary of flycatcher and cuckoo monitoring, 2004 through 2006.**

Wildlife Preserves	Year	Flycatcher				Cuckoo	
		Territories	Adults	Nests Found	Pairs	Detections	Evidence of Breeding
Adobe	2004	10	19	8	ND	5	ND
	2005	7	12	6	ND	7	Yes
	2006	No surveys conducted.					
Spirit Hollow	2004	6	11	6	ND	11	1
	2005	4	7	1	ND	8	Likely
	2006	3	5	1	2	1 – 3 pairs	Possible breeding
Stillinger	2004	6	9	3	ND	No surveys	
	2005	4	7	3	ND	0	No
	2006	10	19	8	9	1	No
Camp Verde	2004	1	2-3	0	1	1 pair	Likely
	2005	0	0	0	0	6	Likely
	2006	No surveys conducted.				1 pair	Possible breeding
McEuen/Phelps Dodge	2005	22	40	9	18	2	Possible breeding
McEuen/PD/Hancock	2006	59	108	38	49	1*	Possible breeding

\* Only one bird was detected at any one time. Pair is unknown but suspected based on behavior.

## **B. Management Obligations**

The primary goal for management of these properties is to provide ecological and conservation benefits to the flycatcher, cuckoo and bald eagle. Management activities are focused primarily on minimizing or eliminating identified threats to riparian habitat, such as wildfire, groundwater pumping, surface water depletion, trespass livestock grazing, cowbird parasitism and vandalism.

Actions to enhance the quality of habitat on a property or reverse past damage are also conducted.

General management activities required for each property are listed below.

- SRP will identify a manager for all acquired properties.
- A management plan will be developed for each property within one year of acquisition in coordination with FWS and will be updated annually.
- Management activities identified in the management plan will be implemented.
- Cowbird management will occur on properties that are agreed to by SRP and FWS during the annual RHCP meeting.
- Conservation easements shall be placed on all appropriate mitigation lands and will be held by an agency or organization acceptable to FWS.

**Table 11. Status of management obligations for mitigation properties**

Mitigation Area	Site Manager	Baseline and Mgmt Plan	Fire Plan Status	Fencing	Water Rights	Conservation Easement
Adobe	SRP; Murosky	C	C	C	In process	
Black Farm	SRP; Murosky	C	C	C	In process	
Spirit Hollow	SRP; Murosky	C	C	C	NR	Completed, USBR
Stillinger	SRP; Murosky	C	C	Partial	NR	
Camp Verde Riparian	SRP; Hauser	C	C	C	NR	
Fort Thomas	SRP; Murosky	In process		Partial	NR	
Rockhouse	SRP; Wheeler	n/a	n/a	C	C	
Arlington Wetland	AGFD			C	n/a	n/a

C = Completed; NR = Not required; n/a = Not applicable to the HCP

### 1. Major Management Activities in 2006

- Site Management:* All mitigation properties were managed by SRP using contract labor, except for the Arlington wetland site, which was managed and operated by AGFD. No changes are anticipated for 2007.
- Fencing:* A strong summer monsoon season resulted in flooding on the San Pedro River, Aravaipa Creek, and the Verde and Gila rivers. As a result, cross-river fencing on the Adobe and Spirit Hollow Preserves was destroyed. A small portion of fencing was destroyed on the Camp Verde Riparian Preserve where Gaddis Wash enters the property. Conditions remained too wet to replace and repair fences through September 2006.

- c. *Water Rights:* Applications to sever and transfer water rights from agricultural fields on the Black Farm and Adobe preserves were submitted to the Arizona Department of Water Resources (ADWR) on September 30, 2005. Slight amendments were sent to ADWR in early December 2006. By law, ADWR should act on the filing within 420 days of submittal (November 24, 2006) to issue a decision and order. To date, ADWR has not issued a public notice regarding the filings. Once the notice has been posted, the public has four weeks to file any objections.
- d. *Conservation Easements:* SRP conveyed a conservation easement on the Spirit Hollow Preserve to Reclamation in October 2006.

The following section addresses actions taken toward meeting monitoring and management objectives as described in the management plan for each Preserve. A brief description of each property is presented, followed by results of monitoring activities, a summary of management activities accomplished in 2006 and a discussion of proposed activities for 2007.

**1. San Pedro River**

a. *ADOBE PRESERVE*

Purchased from	DeNormandie
Close of escrow	9/27/03
Total acreage	153 acres
Estimated riparian acreage	54 acres in San Pedro River
Estimated water rights credits	77 acres (annual avg 863.2 af)
Property management entity	SRP
Status of Baseline Inventory	Completed
Status of Management Plan	Draft completed
Status of Wildfire Abatement & Response Plan	Completed

**MONITORING ACTIVITIES IN 2006**

*Flycatcher and Cuckoo Surveys:* Flycatcher and cuckoo surveys were not conducted on this property in 2006

*Photo points:* Photographs were taken at each permanent photo point in 2006. Results are presented in Appendix C. Additional photos of changes due to flooding were taken. Some scouring occurred in the river bottom due to high flows in July, August and September from monsoon rains.

**MONITORING ACTIVITIES PLANNED FOR 2007**

*Flycatcher and Cuckoo Surveys:* Surveys will not be conducted on this property in 2007.

*Photo points:* Photographs will be repeated in 2007.

## MANAGEMENT ACTIONS COMPLETED IN 2006

*Human and vehicular trespass, vandalism:* A number of vandalism incidents occurred on this property over the past year. Buildings were stripped of copper wiring and gate locks have been repeatedly cut. No damage has occurred to riparian habitat and there has been no sign of activities that would create a fire hazard.

*Water rights and use:* No groundwater pumping is occurring on the property at this time. Both the irrigation well and the domestic well remain inoperable. Sever and transfer of water rights is in process.

*Cowbird Management:* No cowbird trapping was conducted on or in the vicinity of the property in 2006. Nest searching protocols will be used during 2008 flycatcher surveys.

*Wildfire Abatement:* Fire prevention activities conducted in 2006 included regularly patrolling the property to identify and eliminate potential fire hazards. Activities included mowing of vegetation around buildings to maintain at least a 10-foot clearance and trimming tree limbs near buildings and along the entrance road.

*Trespass livestock grazing and fencing:* Trespass livestock continues to be a problem on this Preserve. SRP constructed a fence along the north boundary of the property in March 2006 after repeated attempts to get ASARCO to fix their fence downstream of the Cook's Lake property. In late July and August, all cross-river fencing was destroyed by extremely high instream flows. Fences were re-built in October after the river bottom dried out enough to allow for construction. During the time that fences were down, livestock moved through the river corridor unimpeded in between flood events.

*Restoration of upland field:* No actions have been taken to restore upland fields in the past year. Portions of the abandoned agricultural fields on the river terrace are naturally converting to mesquite shrub lands.

*Site Management:* SRP's property manager conducted weekly, on average, patrol of the property and fence lines, checking for and repairing any breaches in the fences, arranging for removal of trespass livestock and conducting any other general maintenance activities that were needed.

*Invasive Plant Inventory:* SRP planned on inventorying the site for invasive or noxious plants in 2006. However, most of the year was so dry that forbs and grasses were not germinating or producing flowers/seed heads. Monsoon rains resulted in a flush of vegetation, mostly pigweed amaranth, tumbleweed and London rocket. Because of this delay, a full site evaluation will be conducted this fall and next spring/summer. At this time, we have not found any noxious or invasive plants of concern on the property.

## MANAGEMENT ACTIONS PLANNED FOR 2007

*Water Rights and Use:* Once the sever and transfer of water rights has been completed, the irrigation well will be capped.

*Wildfire Abatement:* Continue, as necessary, regularly patrolling the property to identify and eliminate potential fire hazards, mowing vegetation around buildings to maintain at least a 10-foot clearance, trimming tree limbs near buildings and clearing and re-grading roads.

Familiarize all SRP employees and contractors working on the Preserve with fire abatement and response protocols.

*Fencing and Gates:* Patrol and maintain fences.

*On-Site Management:* Regular patrols of the property and fence lines will be conducted; trespass livestock will be removed. General maintenance activities will be accomplished, as needed.

*Invasive Plant Inventory:* Site evaluations will continue through fall of 2006 and spring/summer of 2007.

**b. BLACK FARM PRESERVE**

Purchased from	Stambaugh
Close of escrow	1/10/03
Total acreage	137 acres
Estimated water rights credits	65+ acre-credits
Property management entity	SRP
Status of Baseline Inventory	Completed
Status of Management Plan	Draft completed
Status of Wildfire Abatement & Response Plan	Completed

**MONITORING ACTIVITIES IN 2006**

*Flycatcher and Cuckoo Surveys:* No suitable habitat exists on the property at this time.

*Photo points:* Repeat photographs were taken in October 2006. Results are presented in Appendix D.

**MONITORING ACTIVITIES PLANNED FOR 2007**

*Photo points:* Repeat photographs will be taken in 2007.

*Native grass planting:* SRP will attempt to quantify vegetation cover and species composition in each of the fields planted with native grasses prior to the cessation of irrigation. However, this is a low priority item.

**MANAGEMENT ACTIONS COMPLETED IN 2006**

*Water Rights and Use:* This property was acquired for the primary purpose of retiring pumping to benefit stream flows and severing and transferring surface water rights from irrigation use to instream flow use for wildlife purposes. Pumping for native grass irrigation is not planned for 2007.

*Restore Native Plant Community on Agricultural Fields:* Native grasses will no longer be irrigated after the native stands are established or the sever and transfer process is completed. SRP will attempt to monitor changes that occur in the fields over time.

*Wildfire Abatement:* Fire prevention activities conducted in 2006 included regularly patrolling the property to identify and eliminate potential fire hazards, mowing of vegetation around buildings and wells to maintain at least a 10-foot clearance, and trimming tree limbs near buildings and maintaining roads.

*On-Site Management:* SRP maintains a field office on this site and has a regular presence here. Regular maintenance activities are conducted as necessary. SRP contracts with Mr. Bill Stambaugh to assist with field irrigation and maintenance.

*Invasive Plant Control:* A number of tamarisk trees had germinated in one of the fields. SRP cut and treated them with herbicide. A few areas along edges of the western fields were dominated by pigweed amaranth and tumbleweed. These areas were also treated.

*Field Office:* Volunteers from SRP worked to clean and refurbish the field office buildings and yard. Buildings were painted and a new parking area was defined with railroad ties and covered with new crushed gravel. An irrigation system was installed from the domestic well to the pecan trees that line the entrance road to the property.

#### **MANAGEMENT ACTIONS PLANNED FOR 2007**

*Water Rights and Use:* Once the sever and transfer process has been completed, the irrigation well will be shut off. The domestic well will continue to be used for domestic use at SRP's field office.

*Wildfire Abatement:* Continue, as necessary, regularly patrolling the property to identify and eliminate potential fire hazards, mowing of vegetation around buildings and wells to maintain at least a 10-foot clearance, trimming tree limbs near buildings and maintaining roads. Familiarize all SRP employees and contractors working on the Preserve with fire abatement and response protocols.

*On-Site Management:* Maintain a regular presence at the site and field office. Conduct general maintenance activities, as needed.

*Invasive Plant Control:* SRP will continue to monitor fields for presence of tamarisk and other invasive plants. Control measures will be applied judiciously, only to the worst areas. All tamarisk will be treated in the agricultural fields.

*Field Office:* SRP plans to replace flooring as the final step in refurbishing the building. The living room will be used as a meeting room and educational display area.

c. SPIRIT HOLLOW PRESERVE

<b>Table 14. Summary – Spirit Hollow Preserve</b>	
Purchased from	Skeen and Sonberg
Close of escrow– Lots 2, 3, 4:	7/28/03
Close of escrow – Lot 5:	8/31/03
Close of escrow – Sonberg (Lot 1)	7/25/04
Total acreage	140 acres
Estimated riparian acreage	125 acres in San Pedro River
Estimated buffer acreage	15 acres
Property management entity	SRP
Status of Baseline Inventory	Completed
Status of Management Plan	Draft completed
Status of Wildfire Abatement & Response Plan	Completed

**MONITORING ACTIVITIES IN 2006**

*Flycatcher and Cuckoo Surveys:* Flycatcher surveys were conducted on the property by SRP. These surveys are the second to be conducted after the acquisition of the Sonberg parcel. Five adults, 2 pairs and 3 territories were located. During the first survey period, surface water was absent, vegetation was stressed from lack of winter rains and no birds were found. Prior to the second survey, the site received rain and birds were found near areas of moist soil and large puddles of water.

Cuckoo surveys were conducted by the USGS Colorado Plateau Research Station at NAU (CPRS). Sixteen (16) detections were made over 6 site visits. One to 3 pairs are possibly breeding in this reach of the San Pedro River. (See Appendix K for the detailed report.)

*Photo points:* Repeat photographs were taken in 2006. Photographs are presented in Appendix E.

*Habitat:* Summer monsoon rains caused extensive flooding on this property. Surface flows covered the entire river bottom for most of the season. The river began to cut a new primary channel in the center of the river bottom. Down cutting of the existing channel occurred on the upstream side of the property, while the downstream end received moderate deposition.

**MONITORING ACTIVITIES PLANNED FOR 2007**

*Flycatcher and Cuckoo Surveys:* No surveys will be conducted in 2007.

*Photo points:* Repeat photographs will be taken in 2007.

**MANAGEMENT ACTIONS COMPLETED IN 2006:**

*Cowbird Management:* No cowbird trapping was conducted on or in the vicinity of the property in 2006. Nest searching protocols will be used during 2008 flycatcher surveys.

*Trespass livestock grazing and fencing:* Trespass livestock continues to be a problem on this Preserve. SRP patrols the perimeter and repairs fences on a weekly basis.

In late July and August, all cross-river fencing was destroyed by extremely high instream flows. Fences were re-built in October after the river bottom dried out enough to allow for construction. During the time that fences were down, livestock moved through the river corridor unimpeded in between flood events.

*Wildfire abatement:* Fire prevention activities conducted in 2006 included regularly patrolling the property to identify and eliminate potential fire hazards.

*Access road:* SRP hired Natural Channel Design, Inc. to supervise the construction of a narrow access road from the property entrance to the river. The road is only large enough to get an ATV to the river so that maintenance and fence building material can be transported to the far side of the property.

*Erosion control:* Natural Channel Design, Inc. supervised the construction of several erosion control projects on the Sonberg parcel. Two head-cuts were treated on the mesquite-dominated terrace and several v-mesh water spreaders were installed to disperse run-off across the site, reducing the potential for further channelization and head-cutting.

*Coordination with Neighbors and Community:* SRP maintains relationships with neighboring property owners and land managers, periodically visiting or calling them to keep them informed of our activities. SRP has also allowed Arizona State University and Appalachian State University researchers to continue collecting vegetation and hydrologic data at permanent transect lines located on the Preserve. These transects were established prior to SRP's acquisition of the properties.

*Invasive Plant Inventory:* SRP planned on inventorying the site for invasive or noxious plants in 2006. However, most of the year was so dry that forbs and grasses were not germinating or producing flowers/seed heads. Monsoon rains resulted in a flush of vegetation, mostly pigweed amaranth, London rocket and two grasses that have previously not been found on the site. Because of this germination delay, a full site evaluation will be conducted this fall and next spring/summer. At this time, we have not found any noxious or invasive plants of concern on the property.

#### **MANAGEMENT ACTIONS PLANNED FOR 2007:**

*Wildfire Abatement:* Continue, as necessary, regularly patrolling the property to identify and eliminate potential fire hazards, mowing vegetation around buildings to maintain at least a 10-foot clearance, trimming tree limbs near buildings and clearing and re-grading roads. Familiarize all SRP employees and contractors working on the Preserve with fire abatement and response protocols.

*Fencing:* Patrol and maintain fences.

*On-Site Management:* Regular patrols of the property and fence lines will be conducted; trespass livestock will be removed. General maintenance activities will be accomplished, as needed.

*Invasive Plant Inventory:* Site evaluations will continue through fall of 2006 and spring/summer of 2007.

*Coordination with Neighbors and Community:* Continue to coordinate activities with neighbors and to work with universities to allow access to the Preserve for riparian research.

*d. STILLINGER PROPERTY*

<b>Table 15. Summary – Stilling Property</b>	
Purchased from	Stilling Family Trust
Close of escrow	6/5/04
Total acreage	40 acres
Estimated riparian acreage	26 acres
Estimated buffer acreage	14 acres
Property management entity	SRP
Status of Baseline Inventory	Completed
Status of Management Plan	Draft completed
Status of Wildfire Abatement & Response Plan	Completed

**MONITORING ACTIVITIES IN 2006**

*Flycatcher and Cuckoo Surveys:* Flycatcher surveys were conducted on the property by SRP. These surveys are the second to be conducted after the acquisition of the Stilling property. Nineteen adults, 10 territories, 9 pairs and 8 nests were located. Surface water was present during the entire breeding season. There was a beaver dam and ponded water at the upstream end of the property.

Cuckoo surveys were conducted by CPRS. CPRS biologists reported no detections. One incidental cuckoo detection was reported by SRP, observed during flycatcher surveys. (See Appendix K for the detailed report.)

*Photo points:* Repeat photographs were taken in 2006. Photographs are presented in Appendix F.

*Habitat:* Summer monsoon rains caused extensive flooding on this property. Flood flows extended onto the mesquite-dominated terraces. Down cutting of the existing channel occurred and the beaver dam was destroyed.

**MONITORING ACTIVITIES PLANNED FOR 2007**

*Flycatcher and Cuckoo Surveys:* No surveys will be conducted in 2007.

*Photo points:* Repeat photographs will be taken in 2007.

**MANAGEMENT ACTIONS COMPLETED IN 2006**

*Wildfire Abatement:* A Wildfire Abatement and Response Plan was completed and distributed to cooperators.

*Fencing:* Recent floods destroyed much of the fencing in this reach of the river. SRP is in the process of evaluating how to proceed with building and repairing fences on this property. Because of the amount of surface water area, water depth and siltation in this reach, some areas may not be feasible to fence, such as across the river bottom.

*Access:* Summer monsoon-related floods destroyed the road crossing downstream from the confluence with Aravaipa Creek. This crossing will not be re-built. Previously, SRP was able to access this property using the Aravaipa crossing. Now, the property can only be accessed by crossing the river at Dudleyville. SRP is evaluating whether a more permanent access solution is needed for this property.

**MANAGEMENT ACTIONS PLANNED FOR 2007**

*Trespass livestock grazing:* Periodic livestock grazing occurs on the property when the river bed dries out enough to allow them access, however, most of the time the area is too wet and muddy. SRP will continue to work with neighbors to minimize impacts from livestock.

*Wildfire Abatement:* Continue, as necessary, regularly patrolling the property to identify and eliminate potential fire hazards. Familiarize all SRP employees and contractors working on the preserve with fire abatement and response protocols.

*Fencing and Access:* SRP will construct fences along property boundaries on terraces, where appropriate, and continue to evaluate access issues to determine if any actions are necessary to secure long-term access to the property.

*On-Site Management:* Regular patrols of the property and fence lines will be conducted. General maintenance activities will be accomplished, as needed.

*Invasive Plant Inventory:* Site evaluations will continue through fall of 2006 and spring/summer of 2007.

*Coordination with Neighbors and Community:* Continue to work with neighbors to secure access and to eliminate livestock grazing on the property.

**2. Verde River**

*a. CAMP VERDE RIPARIAN PRESERVE*

<b>Table 16. Summary – Camp Verde Riparian Preserve</b>	
Purchased from	Beta Ventures
Close of escrow	1/19/04
Total acreage	124 acres in Verde River
Estimated riparian acreage	124 acres
Property management entity	SRP
Status of Baseline Inventory	Completed
Status of Management Plan	Draft completed
Status of Wildfire Abatement & Response Plan	Completed

**MONITORING ACTIVITIES IN 2006**

*Flycatcher and Cuckoo Surveys:* Flycatcher and cuckoo surveys were not conducted on this property in 2006. No incidental detections of flycatchers occurred. However, an incidental sighting of one cuckoo was made on June 28, 2006. Another cuckoo was heard knocking while the first was in sight.

*Photo points:* Photographs were taken at each permanent photo point in 2006. Results are presented in Appendix G. An aerial photograph of the reach was taken in May 2006.

*Habitat:* Surface water flowed all through the flycatcher breeding season in both the main channel and in the overflow channel from Gaddis Wash. This overflow channel runs through vegetation that was previously occupied by flycatchers. Although the Verde River experienced some high flows during the summer monsoon season, there were no dramatic flood events like we experienced on the San Pedro River. A large flash flood occurred on Gaddis Wash in July causing some erosion and down cutting on the south side of the Preserve.

#### **MONITORING ACTIVITIES PLANNED FOR 2007**

*Flycatcher and Cuckoo Surveys:* SRP or its contractor will conduct flycatcher and cuckoo surveys on the Preserve in 2007. Nest searching protocol will be attempted on this property if flycatchers are present.

*Photo points:* Photographs will be repeated in 2007.

#### **MANAGEMENT ACTIONS COMPLETED IN 2006**

*Cowbird Management:* SRP did not conduct cowbird trapping on the property in 2005.

*Human and Vehicular Trespass; Vandalism:* In the last half of 2005, we experienced problems with vehicular trespass (ATVs, dirt bikes), damage to our signs and fence cutting. One of the fences cut was the chain link fence between our property and I-17. We reported this to ADOT and the Town Marshall because of highway safety issues. Last December, the vandal was arrested and imprisoned on other charges. All vandalism stopped after that. We still experience occasional ATV trespass, but most people observe the no trespass signs.

*Fencing:* Fences are patrolled on a weekly basis and repaired as necessary. The summer flash flood on Gaddis Wash destroyed a 100 foot section of fence, which was subsequently repaired after the monsoon season in September 2006. During the time that the fence was down, SRP worked with the adjacent land manager to have livestock moved into another pasture away from the breach.

*On-Site Management:* SRP contracts with Dick Hauser to patrol the property, maintain fencing and deter human and vehicular trespass on a weekly basis.

*Wildfire Abatement:* SRP completed a Wildfire Abatement and Response Plan for the Preserve. We are mowing a wide corridor on the right terrace adjacent to Interstate 17 to minimize the potential for fire. Vegetation on this terrace is composed of grasses and weedy annuals.

*Coordination with Neighbors and Community:* SRP has continued discussions with TNC, ASPB, neighboring landowners and community leaders and organizations regarding the establishment of a greenway corridor along this reach of the Verde River. SRP was an exhibitor at Verde River Days in September 2006. The display presented information about the mitigation property location and purpose. SRP

participated in the Verde River Greenway planning process facilitated by TNC in September 2006.

**MANAGEMENT ACTIONS PLANNED FOR 2007**

*Wildfire Abatement:* SRP will disseminate the Wildlife Abatement and Response Plan to appropriate agencies. We will continue to maintain a mowed corridor adjacent to Interstate 17.

*On-Site Management:* SRP contractor will continue to patrol the site and conduct general maintenance and fence repair, remove trespass livestock, deter human and vehicular trespass and identify any fire hazards.

*Coordination with Neighbors and Community:* SRP will continue to coordinate with local community leaders, Arizona State Parks, The Nature Conservancy and neighbors to ensure that the ecological goals for the property are met. SRP will have a booth with information about our mitigation efforts in the Verde Valley at the Verde Valley Birding Festival in April 2007. A small group will be allowed to visit the property for bird-watching and to learn more about SRP’s conservation efforts. We will also have a display at Verde River Days in September 2007.

**4. Gila River**

*a. FORT THOMAS PRESERVE*

<b>Table 17. Summary –McEuen/Hancock Properties</b>	
Purchased from	J. Hancock; G. McEuen; R. McEuen
Close of escrow	8/5/04
Total acreage	308 acres
Estimated riparian acreage	304 acres
Estimated buffer acreage:	4 acres
Property management entity	SRP
Status of Baseline Inventory	Due one year after COE*
Status of Management Plan	Due one year after COE*

<b>Table 18. Summary – Phelps Dodge Conservation Easement</b>	
Purchased from	Phelps Dodge Corp.
Close of escrow	2/4/05
Total acreage	250 acres
Estimated riparian acreage	250 acres
Property management entity	SRP
Status of Baseline Inventory	Due one year after COE*
Status of Management Plan	Due one year after COE*

<b>Table 19. Summary –BR/Hancock Property</b>	
Purchased from	Hancock
Close of escrow	10/3/05
Total acreage	280 acres
Estimated riparian acreage	280 acres
Property management entity	SRP
Status of Baseline Inventory	Due one year after COE*
Status of Management Plan	Due one year after COE*

\*As with other areas, SRP will complete the baseline inventory and management plan after all adjacent properties that are being acquired have closed escrow.

#### **MONITORING ACTIVITIES IN 2006**

*Flycatcher and Cuckoo Surveys:* SRP contracted with Ecoplan Associates to conduct flycatcher surveys on the McEuen parcel, Phelps Dodge Conservation Easements and the new Hancock parcel during the 2006 breeding season. One hundred eight (108) adult flycatchers, 58 territories, 49 pairs and 38 nests were detected. Ecoplan biologists tested the nest searching protocol for the first time at this site. See Appendix J for the full report.

Cuckoo surveys were conducted by CPRS biologists. Three detections were made over 5 site visits. Only one individual was detected at any one time. However, observed behavior (“knocking” calls repeatedly from the same location) suggests that cuckoos may be breeding here. (See Appendix K for the detailed report.)

*Photo points:* Photo points have not been established on these properties. However, photographs of the general area were taken this summer during several trips to the properties. Some of these photos are included in Appendix J.

*Aerial Photography:* SRP contracted to have an aerial photograph taken of the Gila River from Eden to Fort Thomas in May 2006. See Appendix J.

#### **MONITORING ACTIVITIES PLANNED FOR 2007**

*Flycatcher and Cuckoo Surveys:* SRP and Reclamation anticipate that the acquisition of the Bellman parcel will be completed prior to the 2007 breeding season. SRP contractors will conduct flycatcher and cuckoo surveys once again on all parcels to establish a full baseline for this Preserve.

*Baseline Inventory and Management Plan:* A baseline inventory will be completed one year after the acquisition of the Bellman parcel. Based on the inventory and property condition, a management plan will be developed. The management plan will address all the parcels as one management unit.

*Photo points:* SRP will establish permanent photo points on the Preserve.

#### **MANAGEMENT ACTIONS COMPLETED IN 2006**

*Cowbird Management:* No cowbird trapping was conducted on or in the vicinity of the property in 2006. Application of the nest searching protocol estimated

parasitism rates between 15% and 17.6%. These rates are below the 20% limit set by the Recovery Plan and the 30% limit set by SRP's nest searching protocol.

*Site Management:* SRP's property manager began conducting regular patrols of the property. An evaluation of fencing needs and access issues is on-going.

*Coordination with Neighbors and Community:* SRP met with Jerry Sako, Property Manager for Phelps Dodge, to discuss management issues related to the conservation easements.

#### **MANAGEMENT ACTIONS PLANNED FOR 2007**

*Cowbird Management:* Based on preliminary data from nest searching protocol, no cowbird trapping will be conducted in 2007. However, the nest searching protocol will be conducted again with next year's surveys.

*Wildfire Abatement:* SRP will work to develop a Wildfire Abatement and Response Plan with local communities.

*Site Management:* SRP will conduct regular patrols of the property, general maintenance activities, as needed, and will coordinate with neighboring landowners.

*Fencing:* The properties will be evaluated to determine where fencing and signage are necessary. In some instances, vegetation is so dense and access so difficult that fencing may cause more disturbance of occupied habitat than if it were not fenced. In those locations, SRP plans to install signs to alert adjacent farmers to property boundaries. SRP plans to install fencing and signs in 2007.

*Coordination with Neighbors:* SRP will continue to meet with adjacent landowners and lessees to work out access issues and to begin to develop working relationships. Meetings will be set up with BLM (adjacent landowner) and the AGFD Wildlife Manager. SRP will continue to communicate with community leaders, agencies and watershed groups in the area.

## **VI. OTHER MEASURES**

### **Fort McDowell Yavapai Nation Project**

No actions taken in 2006.

## **VII. PUBLIC RELATIONS: Building Community Support**

In May 2006, SRP met with Pinal County Supervisor Lionel Ruiz in Mammoth, AZ to discuss SRP's interests in the San Pedro River corridor, the Resolution Copper Trust land exchange and other related issues.

SRP is providing support to Audubon for the establishment of Important Bird Areas on the San Pedro River and the Verde River at locations that will encompass our mitigation properties. SRP allowed Audubon to establish general bird survey transects on portions of two of our properties.

Presentations on Roosevelt HCP activities were made to SRP's Women's Interest Network Group, to SRP Cartographics staff, at the Tri-party meeting (Reclamation, SRP, Tonto National Forest) and to the Arizona Riparian Council at their annual fall meeting.

SRP participated in a Verde River planning meeting organized by Arizona State Parks and the Nature Conservancy to develop ecological goals and monitoring objectives for the middle Verde River.

SRP staff attended a USGS tamarisk conference in Fort Collins, Colorado, gave an oral presentation on flycatcher habitat requirements and developed a poster presentation titled *Southwestern willow flycatcher mitigation land management and Endangered Species Act requirements: implications of salt cedar control*.

## **VIII. CONSERVATION EASEMENTS**

Several organizations were identified and evaluated as potential conservation easement holders (grantees) for SRP's mitigation properties: Arizona Open Land Trust, The Nature Conservancy, Arizona Game and Fish Department, Audubon and Bureau of Reclamation. A conservation easement was completed for the Spirit Hollow Preserve with Bureau of Reclamation as the grantee.

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**APPENDIX A**

**AERIAL PHOTOGRAPHS  
OF  
MITIGATION PROPERTIES**

SAN PEDRO MITIGATION PROPERTY: ADOBE PRESERVE  
T6S & T7S R16E, SECTIONS 4 & 5



07/07/04 adobepreserve.mxd

Black Farm Preserve



Spirit Hollow Preserve



Cooper Aerial Surveys Co. Nov 06, 2003  
T10S R18E, Sections 8 & 9

SAN PEDRO MITIGATION PROPERTY: STILLINGER  
T7S R16E, SECTION 9



11/01/04 stillinger.mxd

Camp Verde Riparian Preserve



## **APPENDIX B**

### **MANAGEMENT ACTIVITY IMPLEMENTATION MATRICES**

**Adobe Preserve**  
**Black Farms Preserve**  
**Spirit Hollow Preserve**  
**Stillinger Preserve**  
**Camp Verde Riparian Preserve**  
**Fort Thomas Preserve**

## ADOBE PRESERVE – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Baseline Inventory and Management Plan</b>			
Baseline Inventory	Completed		SRP Env. Svc.
Management Plan	Draft Completed		SRP Env. Svc.
<b>Water Rights and Use:</b>			
Submit water rights claim form to ADWR	Completed		SRP Water Rights
Complete the transfer of water rights on property, except for domestic use	In process	Dependent on ADWR	SRP Water Rights
<b>Cowbird Management:</b>			
Apply nest searching protocol		Apply to surveys in 2008	SRP Env. Svc. Cooperators
<b>Livestock grazing and recreational disturbance:</b>			
Remove all trespass livestock	On-going	Patrol conducted regularly	Contract Employee Livestock owner(s)
<b>Fire Management:</b>			
Develop a fire management plan in coordination with fire management agencies	Completed	October 2004	SRP Env. Svc. Contractors
Send fire plan to response agencies; maintain close coordination with wildfire response agencies	Completed	March 2005	SRP Env. Svc. Contract Employee
Patrol site regularly to identify and eliminate potential fire hazards; clearing, mowing, etc.	On-going	Conducted weekly, on average	Contract Employee
<b>Fencing and Gates:</b>			
Re-install barbed wire fencing around the perimeter of the property.	In process	November 2006	Contractor

<b>MANAGEMENT ACTIONS</b>	<b>STATUS</b>	<b>TARGET DATE</b>	<b>DEPARTMENT</b>
<b>(Fencing and gates cont'd.)</b>			
Conduct regular fence patrol to check for breaches. Inspect fence line after every flood event.	On-going	Conducted weekly, on average	Contract employee
<b>Restoration of Uplands Fields:</b>			
Evaluate the need for riparian habitat restoration	Completed	Not necessary at this time	Env. Svc.
<b>On-Site Management</b>			
Maintain and repair existing fences and roads	On-going	As needed	Contract employee
Conduct general maintenance	On-going	As needed	Contract employee
<b>Invasive Plant and Animal Control:</b>			
Survey the property to determine presence and extent of invasive elements	Delayed due to drought	September 2007	Env. Svc. Contractor
Develop plan to minimize or eliminate problem species	Delayed	Depends on results of survey	Env. Svc. Contractor
<b>Facilities Management:</b>			
Cap irrigation well	Not started	After sever and transfer is completed	SRP Water rights SRP Env. Svc.
Implement actions for domestic well	Not started	TBD	SRP Env. Svc. Contractor
<b>Conservation Easement:</b>			
Locate an entity to hold the conservation easement	Initiated	TBD	Env. Svc. Land
<b>Community Support:</b>			
Contact neighbors, maintain working relationships	On-going	On-going	SRP

## BLACK FARM PRESERVE – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Baseline Inventory and Management Plan:</b>			
Finalize baseline inventory	Completed		Env. Svc.
Finalize management plan and distribute to cooperators	Draft completed	January 2007	Env. Svc.
<b>Water Rights and Use:</b>			
Submit water rights claim form to ADWR	Completed		SRP Water Rights
Complete the transfer of water rights on property, except for domestic use	In process	TBD by ADWR	SRP Water Rights
Cap irrigation well	Not started	After S&T is completed	SRP Groundwater
<b>Fire Management:</b>			
Develop a fire management plan in coordination with fire management agencies	Completed	October 2004	Env. Svc. Contractor
Patrol site regularly to identify and eliminate potential fire hazards	On-going	Conducted weekly, on average	Contract employee
Make initial contact with local fire-fighting org. and wildfire response agencies; send copies of plan	Completed	March 2005	Env. Svc. Contract employee
Familiarize SRP employees with protocols	In process	January 2005, on-going	Env. Svc.
<b>Restoration of Upland Fields:</b>			
Plant native grasses and forbs on 101 acres of agricultural fields	Completed	September 2005	Agric. contractor Contract employee
Cease irrigation of fields		April 2007	Agric. Contractor Contract employee
<b>On-Site Management:</b>			
Hire a property maintenance technician	Completed	March 2004	Env. Svc.
Patrol property and fence lines	On-going	Weekly, on average	Contract employee
Conduct general maintenance activities	On-going	As necessary	Contract employee

BLACK FARM (cont'd.)

MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Invasive Plant Control:</b>			
Consult with NRCS Plant Materials Center on best herbicides to use on invasive weeds in agricultural fields; get recommendations	Completed	August 2004	Env. Svc.
Determine need for herbicide spraying or mowing of agricultural fields during irrigation of areas seeded with native grasses	On-going	Weekly coordination to determine need during growing season	SRP SRP Groundwater
<b>Coordination with Neighbors and Community:</b>			
Coordinate activities with adjacent landowners	On-going		Env. Svc.

### SPIRIT HOLLOW PRESERVE – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Baseline Inventory and Management Plan</b>			
Baseline Inventory – add new properties	Draft completed	January 2008	SRP Env. Svc.
Management Plan – add new properties	Draft completed	January 2008	SRP Env. Svc.
<b>Cowbird Management:</b>			
Apply nest searching protocol		Apply to surveys in 2008	SRP Env. Svc. Cooperators
<b>Livestock grazing and recreational disturbance:</b>			
Remove all trespass livestock	On-going		Contract employee Livestock owner(s)
<b>Wildfire Abatement:</b>			
Develop a fire management plan in coordination with fire management agencies	Completed	October 2004	SRP Env. Svc. Contractors
Patrol site regularly to identify and eliminate potential fire hazards; clearing, mowing, etc.	On-going	Conducted weekly, on average	Contract employee
Make initial contact and maintain close coordination with wildfire response agencies, send plan	Completed	March 2005, on-going	SRP Env. Svc. Contract employee
<b>Fencing:</b>			
Re-install barbed wire fencing around the perimeter of the property.	In process	November 2006	Contractor
Conduct regular fence patrol to check for breaches. Inspect fence line after every flood event.	On-going	Conducted weekly, on average	Contract employee
<b>On-Site Management</b>			
Hire a property maintenance technician	Completed	March 2004	SRP Env. Svc.
Maintain and repair existing fences and roads	On-going	As needed	Contract employee
Conduct general maintenance	On-going	As needed	Contract employee

MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Invasive Plant and Animal Control:</b>			
Survey the property to determine presence and extent of invasive elements	Delayed due to drought	September 2007	Env. Svc. Contractor
Develop plan to minimize or eliminate problem species	Delayed due to drought	Depends on results of survey	Env. Svc. Contractor
<b>Facilities Management:</b>			
Evaluate condition of well on Sonberg parcel	Not started	August 2007	SRP Water rights SRP Env. Svc.
<b>Conservation Easement:</b>			
Locate an entity to hold the conservation easement	Completed	May 2006	Env. Svc. Land
Complete conservation easement	Completed	October 2006	Env. Svc.
<b>Community Support:</b>			
Contact neighbors, maintain working relationships	On-going	On-going	SRP Env. Svc.

### STILLINGER PRESERVE – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Baseline Inventory and Management Plan</b>			
Baseline Inventory	Draft completed	September 2005	SRP Env. Svc.
Management Plan	Draft completed	September 2005	SRP Env. Svc.
<b>Cowbird Management:</b>			
Apply nest searching protocol		Apply during 2008 surveys	SRP Env. Svc. Cooperators
<b>Livestock grazing and recreational disturbance:</b>			
Remove trespass livestock	On-going	On-going	Contract employee Livestock owner(s)
<b>Wildfire Abatement:</b>			
Develop a fire management plan in coordination with fire management agencies	Completed	October 2004	SRP Env. Svc. Contractors
Patrol site regularly to identify and eliminate potential fire hazards; clearing, mowing, etc.	On-going	Conducted weekly, on average	Contract employee
Make initial contact and maintain close coordination with wildfire response agencies, send plan	Completed	March 2005, on-going	SRP Env. Svc. Contract employee
<b>Fencing:</b>			
Conduct regular fence patrol to check for breaches	On-going	Conducted weekly, on average	Contract employee
<b>On-Site Management</b>			
Hire a property maintenance technician	Completed	March 2004	SRP Env. Svc.
Maintain and repair existing fences and roads	On-going	As needed	Contract employee
Conduct general maintenance	On-going	As needed	Contract employee

STILLINGER PRESERVE (cont'd.)

MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Invasive Plant and Animal Control:</b>			
Survey the property to determine presence and extent of invasive elements	Delayed due to drought	September 2007	Env. Svc. Contractor
Develop plan to minimize or eliminate problem species	Delayed due to drought	Depends on results of survey	Env. Svc. Contractor
<b>Conservation Easement:</b>			
Locate an entity to hold the conservation easement	Initiated	TBD	Env. Svc. Land
Complete conservation easement	Not started	TBD	Env. Svc.
<b>Community Support:</b>			
Contact neighbors, maintain working relationships	On-going	On-going	Contract employee SRP Env. Svc.

### CAMP VERDE RIPARIAN PRESERVE – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Baseline Inventory and Management Plan</b>			
Baseline Inventory	Draft Completed	September 2005	SRP Env. Svc./Contractor
Management Plan	Draft Completed	September 2005	SRP Env. Svc./Contractor
<b>Cowbird Management:</b>			
Apply nest searching protocol		Attempt during 2007 surveys if flycatchers are present	SRP Env. Svc. Cooperators
<b>Livestock grazing and recreational disturbance:</b>			
Minimize human, vehicular and livestock trespass	On-going	On-going	Contract employee Livestock owner(s)
<b>Wildfire Abatement:</b>			
Develop a fire management plan in coordination with fire management agencies	Completed	December 2004	SRP Env. Svc. Contractors
Patrol site regularly to identify and eliminate potential fire hazards; clearing, mowing, etc.	On-going	Conducted weekly, on average	Contract employee
Make initial contact and maintain close coordination with wildfire response agencies, send plan	Completed	March 2005, on-going	SRP Env. Svc. Contract employee
Mow vegetation to create fire break along I-17 boundary	On-going as necessary	As necessary	SRP
<b>Boundary Issues / Fencing:</b>			
Install wildlife friendly barbed wire fencing along the southern boundary of property.	Completed	December 2004	Contractor
Conduct regular fence patrol to check for breaches. Inspect fence line after every flood event.	On-going	Conducted weekly, on average	Contract employee
Complete fencing along the north and east boundaries	Completed	July 2005	Contractor

CAMP VERDE RIPARIAN PRESERVE (cont'd.)

<b>MANAGEMENT ACTIONS</b>	<b>STATUS</b>	<b>TARGET DATE</b>	<b>DEPARTMENT</b>
<b>Boundary Issues/Fencing (cont'd.)</b>			
Install signage at I-17 bridge and along fence lines	Completed	July 2005	Env. Svc., Contractor
Work w/ adjacent landowners to minimize impacts from I-17 bridge access point.	On-going	On-going	Env. Svc. Contract employee
<b>On-Site Management</b>			
Hire a property maintenance technician	Completed	March 2005	SRP Env. Svc.
Maintain and repair existing fences and roads	On-going	As needed	SRP Env. Svc.
Conduct general maintenance	On-going	As needed	SRP Env. Svc. Contractors
<b>Conservation Easement:</b>			
Locate an entity to hold the conservation easement	Initiated	TBD	Env. Svc. Land
Complete conservation easement	Not started	TBD	Env. Svc.
<b>Community Support:</b>			
Contact neighbors, maintain working relationships	On-going	On-going	SRP Env. Svc.
Information display and trip at Verde Birding Festival		April 2007	SRP Env. Svc.
Information display at Verde River Days	Annually	September 2007	SRP Env. Svc.
Verde River Greenway Planning w/ TNC and ASPB	Initiated	Thru 2007	SRP Env. Svc.

## GILA RIVER PROPERTIES - Management Activity Implementation Matrix

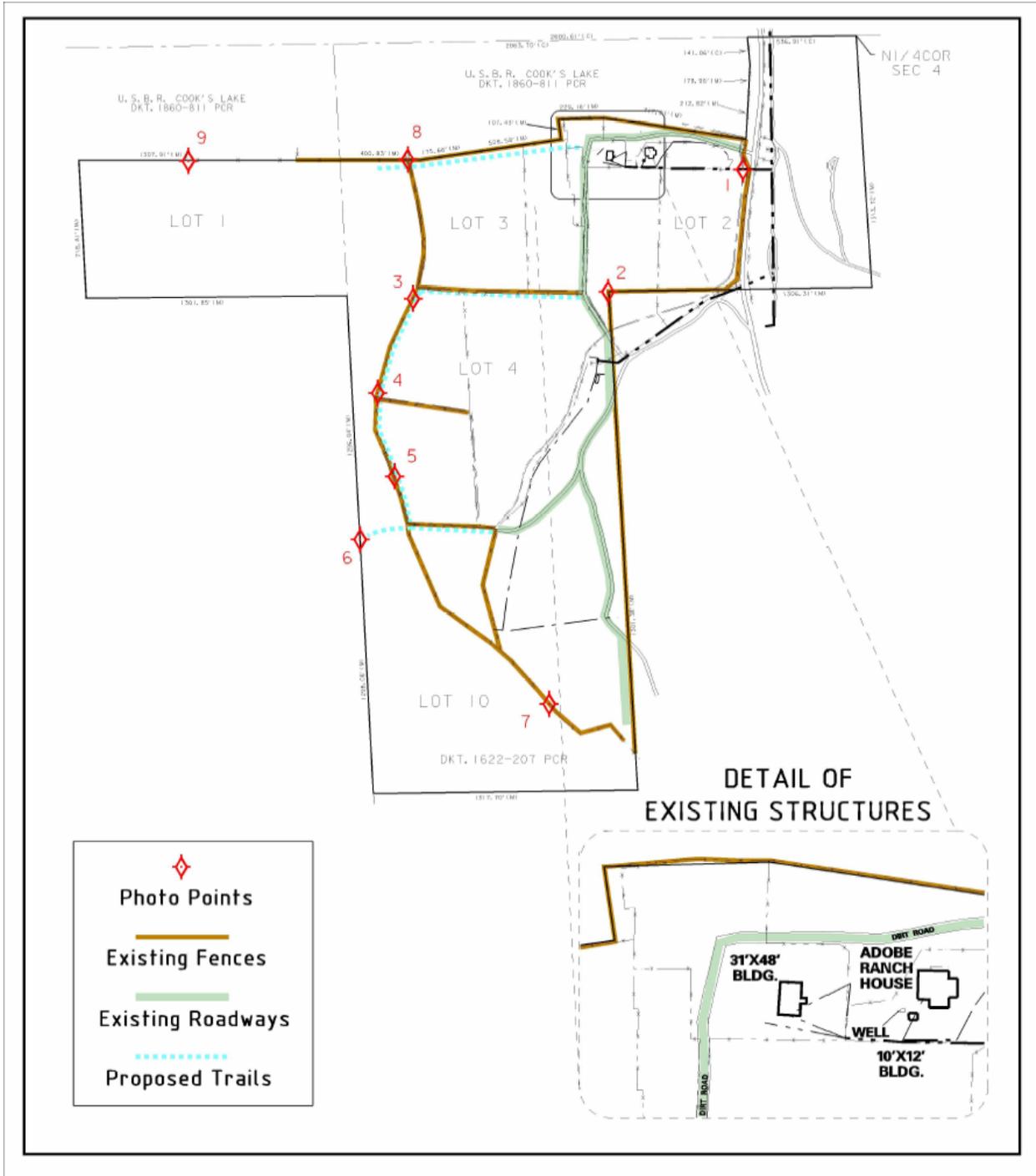
MANAGEMENT ACTIONS	STATUS	TARGET DATE	DEPARTMENT
<b>Baseline Inventory and Management Plan</b>			
Baseline Inventory	In process	January 2008	SRP Env. Svc./Contractor
Management Plan	In process	January 2008	SRP Env. Svc./Contractor
<b>Cowbird Management:</b>			
Test nest searching protocol	In process	2006 and 2007 breeding season	SRP Env. Svc. Contractor
<b>Livestock grazing and recreational disturbance:</b>			
Install signage to deter human and vehicular trespass	Not started	June 2007	SRP Env. Svc.
<b>Wildfire Abatement:</b>			
Develop a fire management plan in coordination with fire management agencies	Not started	2008	SRP Env. Svc. Contractors
Patrol site regularly to identify and eliminate potential fire hazards; clearing, mowing, etc.	On-going	Conducted weekly, on average	Contract employee
Make initial contact and maintain close coordination with wildfire response agencies	Not started	After completion of plan	SRP Env. Svc. Contract employee
Send copies of fire management plan to fire management agencies	Not started	After completion of plan	SRP Env. Svc.
<b>Boundary Issues / Fencing:</b>			
Evaluate the property to determine fencing, signage and access needs	In process	June 2007	SRP
Based on evaluation, install fencing, signage and secure access	Not started		SRP/BR
<b>On-Site Management</b>			
Hire a property maintenance technician	Completed	March 2004	SRP Env. Svc.
Maintain and repair existing fences and roads	On-going	As needed	SRP Env. Svc.

GILA RIVER PROPERTIES (cont'd.)

<b>MANAGEMENT ACTIONS</b>	<b>STATUS</b>	<b>TARGET DATE</b>	<b>DEPARTMENT</b>
<b>On-Site Management (cont'd.)</b>			
Conduct general maintenance	On-going	As needed	SRP Env. Svc. Contractors
<b>Conservation Easement:</b>			
Locate an entity to hold the conservation easement	Initiated	TBD	Env. Svc. Land
Complete conservation easement	Not started	TBD	Env. Svc.
<b>Community Support:</b>			
Contact neighbors, maintain working relationships	On-going	On-going	SRP Env. Svc.

**APPENDIX C**  
**PHOTO POINT MONITORING RESULTS**  
**ADOBE PRESERVE**

# Photo Point Locations Adobe Preserve



**Adobe Preserve Photo Point Record**  
**Photo Point 1- View 1**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 1- View 2**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 2- View 1**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 2- View 2**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 3- View 1**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 3- View 2**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 3- View 3**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 4- View 1**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 4- View 2**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 5- View 1**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 6- View 1**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 6- View 2**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 7- View 1**



October 9, 2003



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 8- View 1**



October 20, 2004



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 8- View 2**



October 6, 2005



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 9- View 1**



October 20, 2004



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 9- View 2**



October 20, 2004



October 19, 2006

**Adobe Preserve Photo Point Record**  
**Photo Point 9- View 3**



October 20, 2004



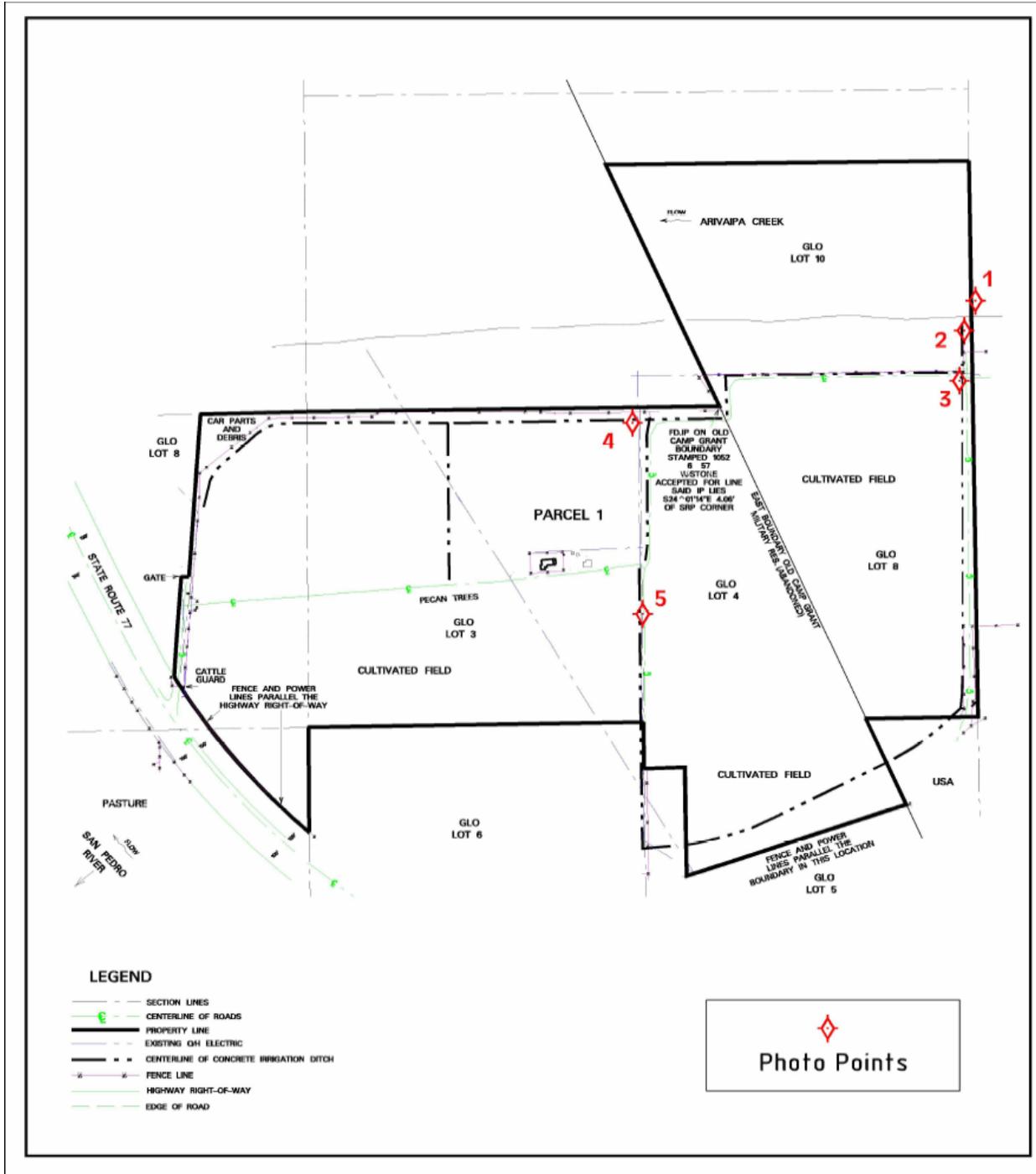
October 19, 2006

**APPENDIX D**

**PHOTO POINT MONITORING RESULTS**

**BLACK FARM PRESERVE**

# Photo Point Locations Black Farm Preserve



**Black Farm Preserve Photo Point Record**  
**Photo Point 1- View 1**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 1- View 2**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 2- View 1**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 2- View 2**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 3- View 1**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 3- View 2**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 3- View 3**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 4- View 1**



June 17, 2004



October 6, 2005

**Black Farm Preserve Photo Point Record**  
**Photo Point 4- View 2**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 5- View 1**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 5- View 2**



June 17, 2004



August 31, 2006

**Black Farm Preserve Photo Point Record**  
**Photo Point 5- View 3**



June 17, 2004



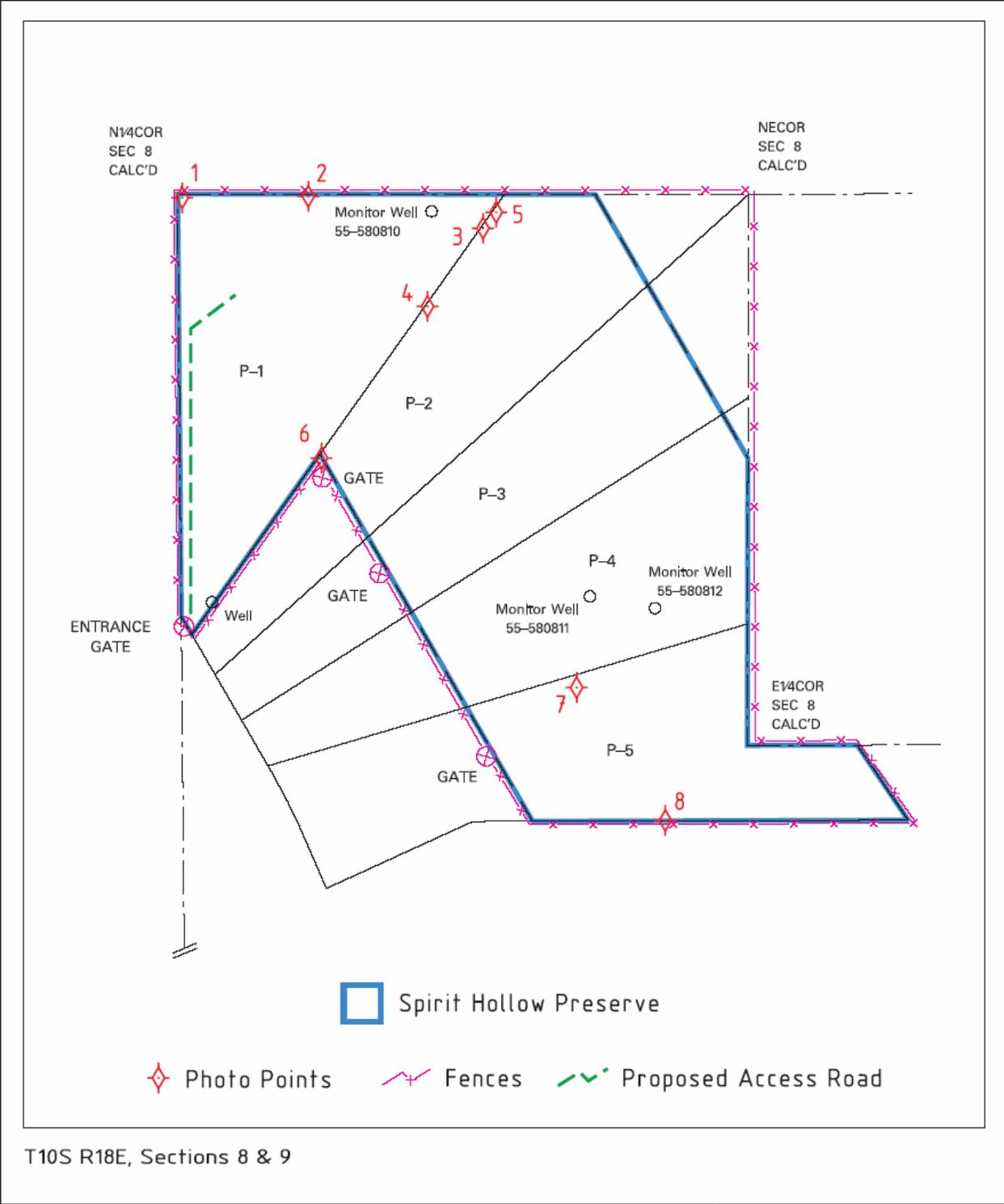
August 31, 2006

**APPENDIX E**

**PHOTO POINT MONITORING RESULTS**

**SPIRIT HOLLOW PRESERVE**

# Photo Point Locations Spirit Hollow Preserve



**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 1- View 1**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 1- View 2**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 2- View 1**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 2- View 2**



September 21, 2005

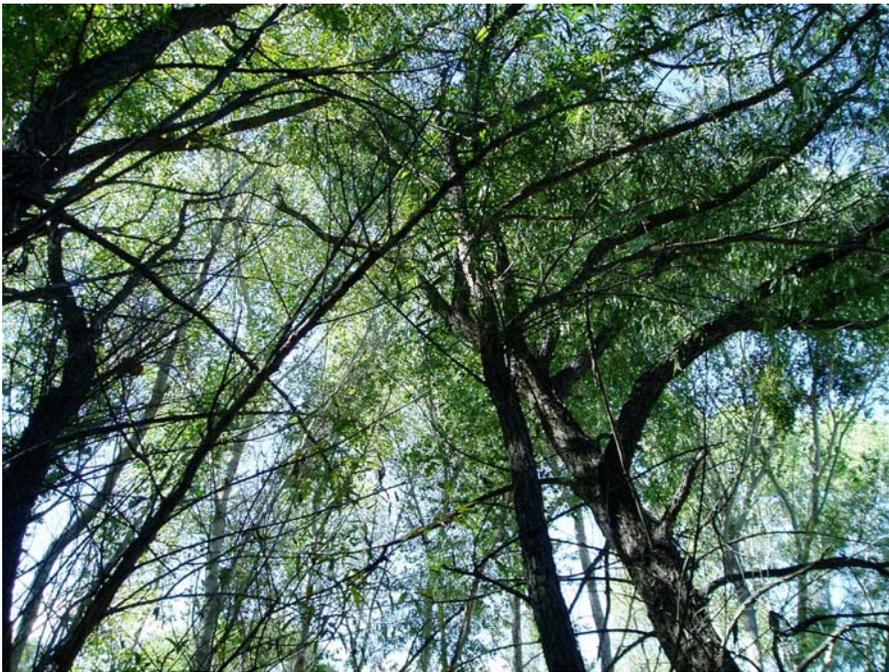


October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 2- View 3**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 2- View 4**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 2- View 5**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 3- View 1**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 3- View 2**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 3- View 3**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 3- View 4**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 3- View 5**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 3- View 6**



September 21, 2005



October 1, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 4- View 1**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 4- View 2**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 4- View 3**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 4- View 4**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 5- View 1**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 5- View 2**

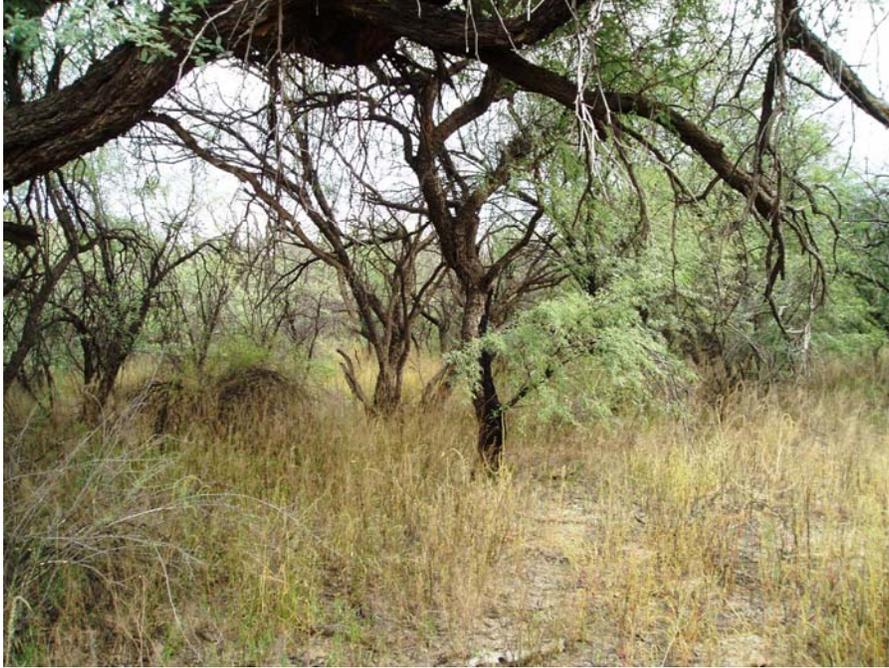


September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 5- View 3**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 5- View 4**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 6- View 1**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 6- View 2**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 6- View 3**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 7- View 1**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 7- View 2**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 8- View 1**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 8- View 2**



September 21, 2005



October 17, 2006

**Spirit Hollow Preserve Photo Point Record**  
**Photo Point 8- View 3**



September 21, 2005



October 17, 2006

**APPENDIX F**

**PHOTO POINT MONITORING RESULTS**

**STILLINGER PRESERVE**



**Stillinger Property Photo Point Record**  
**Photo Point 1- View 1**



June 21, 2005 \*\*\* Located off property; near edge of active channel\*\*\*



October 19, 2006

**Stillinger Property Photo Point Record**  
**Photo Point 1- View 2**



June 21, 2005



October 19, 2006

**Stillinger Property Photo Point Record**  
**Photo Point 1- View 3**



June 21, 2005



October 19, 2006

**Stillinger Property Photo Point Record**

*Photo Point Established in 2006*

**Photo Point 1B-1**



October 19, 2006 \*\*\* Located on property corner \*\*\*

**Photo Point 1B-2**



October 19, 2006

**Stillinger Property Photo Point Record**  
**Photo Point 1B-3**



**Stillinger Property Photo Point Record**  
**Photo Point 2- View 1**



June 21, 2005



October 19, 2006

**Stillinger Property Photo Point Record**  
**Photo Point 2- View 2**



June 21, 2005



October 19, 2006

**Stillinger Property Photo Point Record**  
**Photo Point 3- View 1**



June 21, 2005



October 19, 2006

**Stillinger Property Photo Point Record**  
**Photo Point 3- View 2**



June 21, 2005



October 19, 2006

**Stillinger Property Photo Point Record**  
**Photo Point 3- View 3**



June 21, 2005



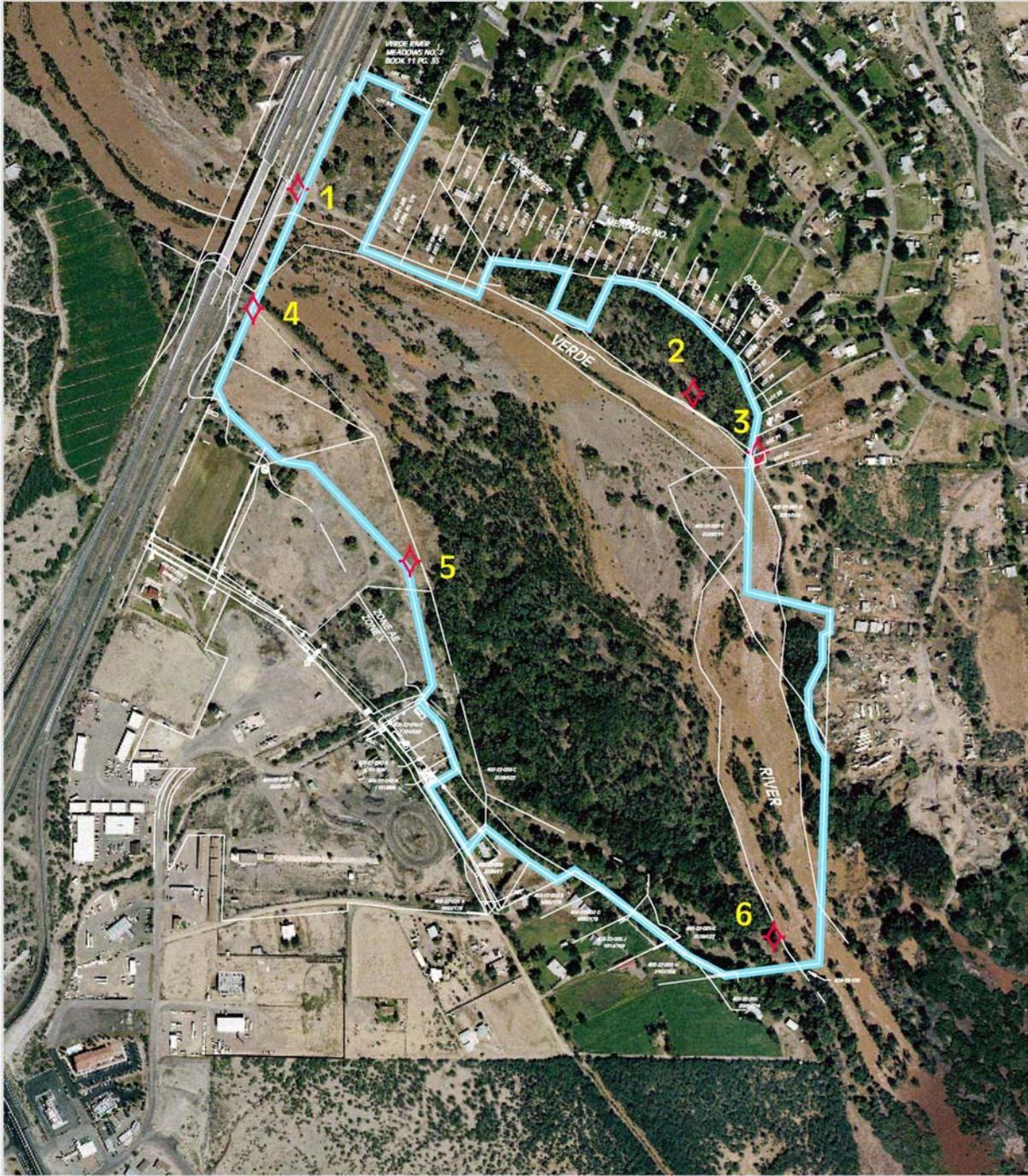
October 19, 2006

**APPENDIX G**

**PHOTO POINT MONITORING RESULTS**

**CAMP VERDE RIPARIAN PRESERVE**

# Photo Point Locations Camp Verde Riparian Preserve



AirPhotoUSA 2004  
T14N R4E, Sections 24 & 25

◆ Photo Points

▬ Preserve Boundary

b

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 1- View 1**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 1- View 2**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 1- View 3**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 1- View 4**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 2- View 1**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 2- View 2**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 2- View 3**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 2- View 4**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 3- View 1**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 3- View 2**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 3- View 3**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 3- View 4**



June 7, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 4- View 1**



August 25, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 4- View 2**



August 25, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 4- View 3**



August 25, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 5- View 1**



August 25, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 5- View 2**



August 25, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 5- View 3**



August 25, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 6- View 1**



August 25, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 6- View 2**



August 25, 2005



June 7, 2006

**Camp Verde Riparian Preserve Photo Point Record**  
**Photo Point 6- View 3**



August 25, 2005



June 7, 2006

**APPENDIX H**

**PHOTO POINT MONITORING RESULTS**

**ROCKHOUSE PROJECT**

**Rockhouse Photo Point Record**  
**Photo Point 1- View 1**



May 3, 2004      Field 4A



October 12, 2006      Field 4A

**Rockhouse Photo Point Record**  
**Photo Point 1- View 2**



May 3, 2004      Field 4A



October 12, 2006      Field 4A

**Rockhouse Photo Point Record**  
**Photo Point 1- View 3**



May 3, 2004      Field 5



October 12, 2006      Field 5

**Rockhouse Photo Point Record**  
**Photo Point 1- View 4**



May 3, 2004      Pond west of project



October 12, 2006      Pond west of project

**Rockhouse Photo Point Record**  
**Photo Point 2A- View 1**



May 3, 2004      Field 5



October 12, 2006      Field 5

**Rockhouse Photo Point Record**  
**Photo Point 2A- View 2**



May 3, 2004      Field 5



October 12, 2006      Field 5

**Rockhouse Photo Point Record**  
**Photo Point 2A- View 3**



May 3, 2004      Field 4B



October 12, 2006      Field 4B

**Rockhouse Photo Point Record**  
**Photo Point 2A- View 4**



May 3, 2004      Field 4B



October 12, 2006      Field 4B

**Rockhouse Photo Point Record**  
**Photo Point 2A- View 5**



May 3, 2004      Field 3



October 12, 2006      Field 3

**Rockhouse Photo Point Record**  
**Photo Point 2A- View 6**



May 3, 2004      Field 3



October 12, 2006      Field 3

**Rockhouse Photo Point Record**  
**Photo Point 2A- View 7**



May 3, 2004 Basin B



October 12, 2006 Basin B

**Rockhouse Photo Point Record**  
**Photo Point 2B- View 1**



October 13, 2005 Field 5



October 12, 2006 Field 5

**Rockhouse Photo Point Record**  
**Photo Point 2B- View 2**



October 13, 2005    Field 5



October 12, 2006    Field 5

**Rockhouse Photo Point Record**  
**Photo Point 3- View 1**



May 3, 2004 Basin B



October 12, 2006 Basin B

**Rockhouse Photo Point Record**  
**Photo Point 3- View 2**



May 3, 2004 Basin B



October 12, 2006 Basin B

**Rockhouse Photo Point Record**  
**Photo Point 3- View 3**



May 3, 2004 Basin B



October 12, 2006 Basin B

**Rockhouse Photo Point Record**  
**Photo Point 4- View 1**



May 3, 2004      Field 2



October 12, 2006      Field 2

**Rockhouse Photo Point Record**  
**Photo Point 4- View 2**



May 3, 2004      Field 2



October 12, 2006      Field 2

**Rockhouse Photo Point Record**  
**Photo Point 4- View 3**



May 3, 2004 Basin A



October 12, 2006 Basin A

**Rockhouse Photo Point Record**  
**Photo Point 4- View 4**



May 3, 2004 Basin A



October 12, 2006 Basin A

**Rockhouse Photo Point Record**  
**Photo Point 4- View 5**



May 3, 2004 Basin A



October 12, 2006 Basin A

**Rockhouse Photo Point Record**  
**Photo Point 4- View 6**



October 13, 2005 Field 3



October 12, 2006 Field 3

**Rockhouse Photo Point Record**  
**Photo Point 5- View 1**



May 3, 2004      Field 1



October 12, 2006      Field 1

**Rockhouse Photo Point Record**  
**Photo Point 5- View 2**



May 3, 2004      Basin A



October 12, 2006      Basin A

**APPENDIX I**

**PHOTOGRAPHS FROM THE  
ARLINGTON WILDLIFE MANAGEMENT AREA  
CONSTRUCTED WETLAND PROJECT**



## **APPENDIX J**

### **2006 Summary: Southwestern Willow Flycatcher Surveys Along the Gila River at Fort Thomas, Graham County, Arizona\***

\* Locations of endangered species are sensitive data considered confidential by U.S. Fish and Wildlife Service and therefore are omitted from this report. Management agencies requiring this information can contact SRP or the Arizona Ecological Field Services Office of U.S. Fish and Wildlife Service to receive this information.

## **APPENDIX K**

### **Yellow-billed Cuckoo Distribution and Abundance, Habitat Use, and Breeding Ecology in Select Habitats of the Roosevelt Habitat Conservation Plan: 2006 Annual Report\***

\* Locations of endangered species are sensitive data considered confidential by U.S. Fish and Wildlife Service and therefore are omitted from this report. Management agencies requiring this information can contact SRP or the Arizona Ecological Field Services Office of U.S. Fish and Wildlife Service to receive this information.