

DRAFT
ENVIRONMENTAL ASSESSMENT

Hillsdale Shooting Range
Hillsdale State Park
Paola, Kansas

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and
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CHAPTER 1: PROJECT SUMMARY, PURPOSE AND NEED

1.1 PROJECT SUMMARY

Location: Hillsdale State Park

County: Miami

Nearest town: Paola, KS

Township/Range/Section: SW ¼ Section 17, T16S, R23E

GPS center of project: N 38 39.481, W 94 53.785 (Appendix 1)

The Kansas Department of Wildlife and Parks (KDWP) proposes to construct a shooting range at Hillsdale State Park (HILP), on land leased from the Corps of Engineers (COE), located immediately below the Hillsdale dam to the east of the outlet (Appendix 1). The shooting range complex will consist of a six position 200 yard range, a 20 position 50/100 yard rifle range, a 24 position 25/50 yard handgun range, a combination skeet/trap shotgun field, a gate house, combination meeting room/storage building, and a CXT pit toilet.

The proposal will also include a Shotgun Skills Training Area. This area will be used to teach a variety of shooting skills including activities similar to the following: how to safely transport firearms in field situations; shooting at targets moving along the ground, like rabbit hunting; test shot patterns at a designated site; and shooting from a variety of shooting scenarios.

All target range areas will be bermed with a minimum of eight foot high side berms and 20 foot high end/impact berms. Material from the berms will come from leveling the ranges. A one percent slope away from the firing line and to the side will be constructed to facilitate drainage. Baffles will be positioned down range to maintain a “no blue sky” view.

Associated amenities will include a sheltered firing line over a concrete pad, perimeter fencing, a gatehouse, 52 space gravel parking area, and a gravel access road.

KDWP is aware of the growing concern about lead contamination related to shooting ranges. KDWP will take a proactive approach to the lead issue and a lead management program will be instituted while the range is in operation. Best Management Practices for Lead Outdoor Shooting Ranges as written by the EPA (EPA, 2003) will be implemented. Soil testing will be done for soil alkalinity and the area will be limed to maintain property pH, and water quality monitoring will be done in the ditch that collects all surface runoff. If water quality monitoring dictates the need, containment ponds will be built in the ditch area in the future.

The perimeter fencing will be signed, and flag poles will be erected and will fly flags when the range is in use. The total area to be used, plus a safety zone is 30 acres.

Initial funding for this project will come from the Pittman-Robertson Federal Aid in Wildlife Restoration Act administered through the U. S. Fish and Wildlife Service. This project is estimated to cost just over one million dollars. State share will be provided by the Shooting Range project (Wildlife Fee Fund) and about \$10,000 from the Wild Turkey Federation, KS Skeet Shooters Association, KS Trap Shooters Association and the NRA. The Hillsdale Range and Training Facility of East Central Kansas Club (HR & TF) will be contracted to manage the area (Appendix 4).

1.2 PURPOSE

The purpose of this range is to provide a safe setting for shooting handguns, rifles and shotguns. Expected results and benefits will be to provide shooting opportunities for the public in an area where such opportunities are limited. The range complex will provide opportunities for marksmanship practice, live-fire exercises in hunter education classes, a safe place for hunters to sight in rifles and shoot clay targets before hunting seasons and extend opportunities for 4-H and other civic groups to shoot. In addition, special events such as NRA Women on Target events will be conducted.

1.3 NEED

HILP is located in the most populous area of the state. Although demand for a safe place to shoot is extremely high, opportunities to shoot are extremely limited. The population of Miami County, where the park is located, is 28,904. The population of Johnson County, adjacent to the park is almost two million people, so the need for shooting opportunities is tremendous. Approximately 600,000 people visited Hillsdale State Park last year. The potential exists to have 100 people use the range daily when open to the public.

The park is located on property owned by the U.S. Army Corps of Engineers. The COE is in the formal process of approving the shooting range master plan designed by the firm Schwab-Eaton, P.A. KDWP and the COE have met on several occasions and to date, COE has expressed support of the project, and has no major objections (Robins, 2010).

There are currently no public outdoor handgun and rifle ranges in this part of Kansas. According to public comments, the nearest ranges are over an hour away in Missouri at Lake City and Parma Woods. Two gun dealers (Bass Pro and Jeff Elliot) support the range, and verify the need of their numerous customers for the shooting range facility.

Shooting sports supporters have voiced a need for this kind of facility which will allow marksmanship practice in addition to the hunter education aspects.

The range and meeting room will be also used for Hunter Education classes. An average of 112 hunter education certificates per year is issued for Miami County. This site will provide a convenient location for those classes, and a location for live-fire hunter education exercises in the Kansas City area.

In addition to the use of the range as a training facility, the range can be used to sight in guns and for marksmanship practice. At the present time, there is no established place for people to go to shoot, and this activity takes place in various settings and safety is a concern. Private land, COE property and state park areas that are undeveloped are often used. This range will provide a safe, confined and controlled environment for this activity.

The Hillsdale Range and Training Facility of East Central Kansas Club (HR & TF) was formed to manage and promote the range once it is built.

1.4 BACKGROUND

Hunting is a very important part of Kansas' economy and is a tradition for many Kansans. The number of licensed hunters declined in 2002 and 2005, but the numbers have increased in subsequent years.

The state continues to try to capture interest in new hunters by promoting hunter safety courses in communities across the state. KDWP has instituted a hunter recruitment program called "Pass It On," designed to reverse the declining trend in hunter numbers. Pass It On is made up of many different subprograms, such as Outdoor Mentors, Shooting Opportunities, Hunting Access, Special Hunts, and Education and Awareness (KDWP, 2010).

The Kansas Hunter Education Program (HE) began in 1956 when state legislature passed law KSA 32-920 requiring that all persons under the age of 16 years complete a four hour course in "firearms safety" to become eligible to obtain a hunting license.

Over time the HE program has evolved and grown, meeting the requirements for Wildlife and Sport Fish Restoration Program support and implementing recommendations of the International Association of Fish and Wildlife Agencies Hunter Education Study Team as revised in 1990. Since the HE program began, more than 450,000 individuals have been certified through its classes. In 2009, a total of 7,305 individuals were certified.

1.5 FUNDING

Funding for this project will come from the Pittman-Robertson Federal Aid in Wildlife Restoration Act administered through the U. S. Fish and Wildlife Service. Part of the KDWP apportionment is reserved for Hunter Education. This project is estimated to cost \$1,067,100. State share will be provided by the Shooting Range project (Wildlife Fee Fund) and about \$10,000 from the Wild Turkey Federation, KS Skeet Shooters Association, KS Trap Shooters Association and the NRA.

For the first two years of the project, KDWP will support the management of the range by providing \$40,000 per year to hire personnel to run the range. This period of time will

allow the HR & TF club to build membership and amass dues to take over full management of the area.

1.6 DECISIONS THAT NEED TO BE MADE

KDWP and the U.S. Fish and Wildlife Service will select one of the alternatives analyzed in this document and the Fish and Wildlife Service's Regional Director will determine, based on the facts and recommendations herein, whether this Environmental Assessment (EA) is adequate to support a Finding of No Significant Impact (FONSI) decision, or whether an Environmental Impact Statement (EIS) will need to be prepared.

CHAPTER 2: ALTERNATIVES

2.1 ALTERNATIVE 1 - PREFERRED ACTION

A shooting range complex would be developed at Hillsdale State Park, on land leased from the COE, located immediately below the dam to the east of the outlet. The complex will consist of a 20 position 50/100 yard rifle range, a 24 position 25/50 yard handgun range, six position 200 yard rifle range, a combination skeet/trap shotgun field, a gate house, combination meeting room/storage building, and a CXT pit toilet (Appendix 2). Each rifle and handgun range would include a minimum of eight foot high side berms and 20 foot high end/impact berms. Material from the berms will come from leveling the ranges. Calculations for the 50/100 yard range are cut 15,681 CY, fill 11,631 CY, including the entrance road and leveling of the shotgun field. The final layer of fill would be screened for rocks before being incorporated into the berm. A road would be placed on the top of the berm for future maintenance purposes (increasing the height, reshaping, lead reclamation, etc). The footprint of the berm would vary to accommodate an interior berm slope of 1.5:1 and exterior slope of 4:1, depending on topography.

Cut and fill calculations for the 200 yard range are cut material of 37,000 CY and fill material of 1900 CY. Loss/shrinkage factor is 25% so the cuts and fills should balance, except for the 200 yard range. Excess cut material will be incorporated into higher berms.

A 24 foot wide, 900 foot long road will start at the turnoff from the paved road below the dam to a turnaround. This road will allow access to the rifle and handgun ranges, and terminate at the shotgun field. Fifty-two head-in parking spaces will be constructed by widening the road to 43 feet to create the parking area, including three Americans with Disabilities Act (ADA) spaces. The turnaround will be 62 feet in diameter. The road and the parking spaces will be a crushed rock surface and will accommodate ingress and egress to the facility.

On the rifle and handgun ranges, baffles will be positioned down range to maintain a "no blue sky" view (Appendix 2). Construction will be contracted through standard Kansas contracting procedures.

The shotgun field will have a trap house and combination high/low skeet house. Pellet size for skeet shooting will be restricted to #9 shot for safety reasons.

The range will allow muzzle-loading firearms, high caliber rifles, air rifles and pistols at appropriate ranges. All shotgun gauges will be allowed at the trap and skeet course. Fifty caliber firearms or larger will not be allowed on the range. Fully automatic firearms and tracer/armor-piercing ammunition will also be prohibited (Appendix 3).

Target frames, target sheets and clay targets will be available on-site, and will be supplied solely through the range facility.

KDWP is aware of the growing concern about lead contamination relating to shooting ranges. KDWP will take a proactive stance, and a lead management program will be instituted on the range. The program will be based on Best Management Practices for Lead Outdoor Shooting Ranges written by the EPA (EPA, 2003). Practices implemented will include using earth berms, monitoring soil pH, and remediating as necessary by liming the soils. A lead removal program, based on number of rounds fired, will be carried out by a reclamation contractor. It is estimated that the reclamation will occur about every five years. Water quality monitoring will be done in the ditch that collects all surface runoff. If needed, containment ponds will be built within the ditch area. A monitoring station will be placed on the ditch just before it enters the outlet canal.

The perimeter of the facility will be fenced and signed, and two flag poles will be erected to fly flags when the range is in use. One flag will be located across the road from the gatehouse, and one will be located at the road turnaround. The total area to be used including a safety zone is 30 acres.

A one percent slope away from the firing line and to the side will be constructed to facilitate drainage. All disturbed areas will be seeded with rye or other species that are less palatable to wildlife, deer in particular, to minimize erosion. All areas within the ranges and the shot fall area for the shotgun field will be mowed to facilitate lead reclamation. These square areas will be reseeded, as necessary, following the reclamation process. Grading on the shotgun field will be monitored to ensure that buildup of clay targets does not create areas that would hold water.

Shooting area firing lines will be a concrete pad with an overhead shelter and a bench at the rear. The perimeter of the entire area will be fenced (Appendix 2).

A recreational multi-purpose trail that is currently in the proposed boundaries of the range will be relocated. It runs approximately in the same location as the road, and passes through the shotgun field. The route through the shotgun field will be changed to go around the perimeter of the project boundary. This trail is predominantly used for horseback riding and contacts were made with the Saddle Ridge Riders Club and the Eastern Kansas Arabian Horse Association to solicit input on the proposed range. Comment sheets were mailed or handed to the presidents of these associations. Returned comment sheets are included in Appendix 20. KDWP also met with the Saddle Ridge

Riders Club and the meeting ended with an understanding that KDWP, HR&TF and the Club will work together to lay out the best path to relocate the trail by the range. Several of the Saddle Ridge Riders Club members are hunters and shooters and support the need for the range. One Saddle Ridge Riders Club member did submit a comment sheet against the project (Appendix 20).

A meeting room/storage building will also be constructed. It will be a 30 foot by 40 foot building, pre-engineered with insulation and rough-ins for toilets and a kitchen. It also includes lighting, AC, heat and a separate outside entrance for 300 square feet of storage. When the building is completed, it will have water and electric run in from the existing State Park Office compound in a corridor approximately 2000 feet long and 50 feet wide (Appendix 5). KDWP will meet septic system requirements of the Miami County and KDHE. In the phased approach proposed, drinking water may be hauled in, porta-johns used, and a generator used for electricity until funds become available to complete the utilities to the building.

KDWP also plans on constructing a CXT model Tiago two-stall pit toilet and a 48 square foot gate house with electricity for heating and air-conditioning.

The HR & TF will manage and maintain the area, through a Letter of Agreement with KDWP (Appendix 4).

2.2 ALTERNATIVE 2 - LOOKOUT ROAD SITE

This alternative is located in T16S R23 W S half of Section 19. The firing line is parallel to and about 300 feet north of 271st Street and is 1200 feet east of Lookout Road. This site is also below the dam, but is approximately one and a half miles southwest of the spillway (Appendix 6).

Plans are for a shotgun only range, with one trap house, one low and one combination high/low skeet house. A 975 foot half-circle posted safety zone would be established around the area since there are no natural berms.

All areas within the shotgun field would be mowed to facilitate lead reclamation, and trees and shrubby vegetation removed. The area with the intermittent channel would be reseeded to grass. Grading on the shotgun field would be monitored to ensure that buildup of clay targets does not create areas that would hold water.

This area has minimal variation in elevation which does not make it conducive to the development of a rifle or handgun range. This location is not ideal for the range because of the large amount of dirt that would need to be trucked in from another site to construct berms. This adds to the expense and could result in additional environmental impacts to the material borrow area. Furthermore, a range would be very visually intrusive in this particular area. This location is further from the Park and COE headquarters, which would lessen the ability of personnel to monitor the area and control access.

2.3 ALTERNATIVE 3 – NO ACTION

This area would be allowed to continue succession to a more natural state. Mowing would continue to prevent the encroachment of trees. Recreation would remain unspecified, with one multi-use trail.

With no action, continuation of recreational shooting in informal locations would likely continue, raising safety issues from unintended targets to uncontrolled shooting and shooting related debris left at various locations. Lead would probably not be a concern because of lack of concentrations. The main effect would be a continuation of public dissatisfaction at not having a safe, public, outdoor location for the various types of recreational shooting. Table 1 summarizes the alternatives.

Table 1: Comparison of Alternatives

	Recreation	Safety	Socioeconomic
Alternative 1 (Preferred Action)	Provide rifle, handgun and shotgun ranges for the general public and hunter education students.	Provide safe, controlled area to sight in firearms. Bullet containment with constructed berms and baffles. Hunter Ed facilities.	Bring an additional segment of users to Park and a new flow of revenue direct and indirect from a variety of shooting sportsman.
Alternative 2	Provide shotgun range only.	Provide safe area to shoot and pattern shotguns. Limited use for Hunter Ed	Bring in modest amount of additional users.
Alternative 3 (No Action)	Uncontrolled dispersed shooting would continue with limited shooting opportunities for the general public.	Continued scattered use of back country for sighting in firearms and recreational shooting. Continued safety issue and debris left at sites.	No effect

CHAPTER 3: AFFECTED ENVIRONMENT

3.1 PHYSICAL ENVIRONMENT

HILP is located in Miami County in the northeast part of the state. It is located within 45 miles of Kansas City. The site is in the Tall Grass Prairie Ecosystem, and the surrounding areas are used for farming, haying and grazing. Since it is in a rural location,

there are no air quality concerns, nor should the range cause any to arise. Hillsdale Reservoir and dam are to the northwest of the project area, but should not be affected by the project. The only flowing water nearby is in the outlet canal. The canal is 200 feet west of the range fence line with the rifle shooting lines facing east, and the shotgun field facing southeast. With the precautions being taken with lead shot, no impacts are anticipated to the outlet canal.

The proposed location for the Preferred Action is T16S R23E, NW quarter, SW quarter, Section 17. It is below the Hillsdale dam and east of the outlet canal.

The location of Alternative 2 is T16E R23E, SE ¼, SW ¼, Section 19 and T16E R23E, SW ¼, SE 1/4, Section 19. It is below the Hillsdale dam and to the west of the outlet canal.

The location of No Action is T16S R23E, NW quarter, SW quarter, Section 17. It is below the Hillsdale dam and east of the outlet canal, the same as the Preferred Action.

3.1.1 Soils

Preferred Action and No Action - Soils are predominantly Summit silty clay loam (90%) and Woodson silt loam (10%) with some Bucyrus silty clay loam in the safety zone (Appendix 7). These soils are generally rated for percent clay as 36%, 23% and 28% respectively (Appendix 8). Ratings on the pH scale are 6.6, 6.1 and 6.2 (Appendix 9). For the Preferred Action, most of the shot in the shotgun range shotfall zone will fall on the Summit soils, due to the layout of the field.

Alternative 2 - Soils are Kenoma silty loam (40%), Summit silty clay loam (50%), and Bucyrus silty clay loam (10%) (Appendix 10). These soils are generally rated for percent clay as 23%, 36% and 28% respectively (Appendix 11). Ratings on the pH scale are 5.8, 6.6 and 6.2 (Appendix 12).

3.1.2 Topography

Preferred Action and No Action – The slope ranges from one percent at the west end of the project area, to eight percent as it approaches the northeastern reaches of the safety zone. An old ditch and terrace, left over from the original use of the area as a hay field, passes either just outside, or within the outer edges of the safety zone on the east side. It is located 300 to 400 feet from the shooting line of the shotgun field. It will intercept most storm runoff before it can enter the project area. Two other terrace remnants exist within the project area. A ditch also parallels the outlet canal, between the project area and the canal itself.

The ranges are laid out in a gently sloping field. Beyond the proposed berms of the rifle ranges to the east-northeast (direction of fire), the land rises sharply to form a natural berm. The same holds true for most of the shotgun range. To the south, the land

continues to slope gently, and a large (900 feet) shotfall and safety zone is established, and will be enclosed by a fence.

The field where the rifle and handgun ranges are proposed vary in slope from three to eight percent. The shotgun field slope varies from one to five percent.

Alternative 2 – The range and surrounding area is a flat, low field, adjacent to the emergency uncontrolled spillway. A small, intermittent tributary to Bull Creek runs through the site. There are no natural berms in the area.

3.2 BIOLOGICAL ENVIRONMENT

3.2.1 Vegetation

Preferred Action and No Action - The rifle and handgun ranges will be constructed on an old “go-back” field (formerly managed, but now natural succession is allowed, with an emphasis towards keeping woody vegetation out by occasional mowing). This site had not been hayed for at least 20 years and the predominant vegetation (99%) is brome with a scattering of cedar. Other species observed in very low densities were oxeye daisy, annual ragweed, Illinois bundleflower, milkweed spp., willow sunflower, daisy fleabane, sweet clover, ground cherry, dogbane, ironweed, parson’s pea, mullein, cottonweed, buck brush, fire on the mountain and wild grape. These plants are native or naturalized species. Two individual plants of *Sericea lespedezia* (a noxious weed) were observed. A small prairie remnant, about 700 feet on a side is located in the northeast corner of the project area. It is dominated by little bluestem. A few individual plants of eastern gamagrass, giant foxtail and fringe-leaf ruellia were observed. None of these are considered noxious or invasive.

The shotgun field is about 40% pre-disturbed and 60% containing sparsely scattered trees. The area is currently mowed to prevent tree encroachment.

Alternative 2 – The shotgun only range will be constructed on a pre-disturbed hayfield. Vegetation is similar to the Preferred Action with trees and other riparian vegetation along the course of an intermittent stream running through it. There is approximately one and a half miles of riparian corridor, ranging from 50 to 800 feet in width running through the half section. This area is also mowed to prevent tree encroachment. No construction is planned for the riparian area, but it is within the shotfall safety zone.

3.2.2 Federal Threatened and Endangered Species

For all sites, no Federal Threatened or Endangered species, or species of concern are known to exist on the specific area for the shooting range. However, in Miami County, Mead’s Milkweed (*Asclepias meadii*) is listed as Threatened (USFWS, 2011).

3.2.3 State Wildlife Species

For all sites, a partial listing of potential species can be found in Appendix 14. At the end of the overall list, species that prefer wet habitats could possibly be found at the Alternative 2 site. There is a potential for spotted skunk, classified as a Kansas Threatened species to occur in the riparian corridor, its historic range (Appendix 13).

3.3 LAND USE

Hillsdale State Park is a multiuse recreational area. Camping, fishing, boating and sailing, hunting, beach use and swimming, horseback riding, and model airplane flying are offered. The park consists of about 13,000 acres and the lake covers approximately 4,500 acres.

Preferred Action and No Action – Currently the sites have no specialized recreational use, except for the multiuse trail on the west boundary. It is no longer used for haying, and is being allowed to go back to a natural state. It is mowed to discourage tree encroachment, and patrolled for *Sericea lespedeza* invasion. This area is within the state park, and is visible from the road across the Hillsdale dam, and from the parking lot on the other side of the outlet canal as part of the viewscape.

Alternative 2 – The proposed range would be located about 300 feet north of the park boundary and an existing road. It is a low area, adjacent to the uncontrolled emergency spillway with no specialized recreational use. It also is mowed and being allowed to go back to a more natural state. It also is within the park, and is part of open space on the south side of the lake.

3.4 CULTURAL/HISTORIC RESOURCES

No known cultural/historic resources are known to exist on any of the alternative sites. The State Historic Preservation Office has reviewed the project and has no objection to the project (Appendix 19).

3.5 NOISE

Noise levels for all sites are low, since the area is undeveloped. A siren is in place that is sounded when high releases are made at the outlet of Hillsdale dam. Hunting does occur on the reservoir, and gunfire may be occasionally heard at this site. A model airplane field may also generate some noise when it is in operation. There is also traffic noise from vehicles using the paved road across the dam.

3.6 RECREATION

Preferred Action and No Action – A multiuse trail exists on the western edge of the site. The area is used predominantly by horseback riders. Fishing occurs along the outlet canal and the rest of the area is undesignated recreational use.

Alternative 2 – At this site, nearby recreational uses include a dog field trial area and remote control aircraft field.

3.7 SAFETY

There are no current safety concerns on either of the alternatives. These areas are part of open space within the park boundaries, and, having no specific recreational use assigned, have only extremely light dispersed use. Neither area is remote and both are close to roads.

3.8 LOCAL SOCIOECONOMIC CONDITIONS

Preferred Action and No Action – These alternatives contribute indirectly to the local economy. The site lies within the Hillsdale State Park boundaries, and thus not subject to development without permission from KDWP/COE. Park users in general consume gas, food and lodging, as do hunters during hunting seasons; all adding to the local economy.

The closest towns are Paola, Hillsdale and Lento, which are all agricultural communities. A horse rental business exists on the east side of the reservoir that provides camping for horse owners as well as horses for rent. About 10 homeowners reside in the area, approximately a half mile or further from the site.

Alternative 2 – This site also contributes indirectly to the local economy in similar ways to the Preferred Action and No Action.

About 30 homeowners reside within a quarter mile of the Alternative 2 site. These homeowners were not directly contacted because this is not the preferred site. Landowners were allowed the opportunity to comment on the Preferred Action, but no comments were submitted on this site at the public meetings. Alternative 2 had already been eliminated from detailed consideration because it was determined to be unsuitable for many reasons. Landowner comments were encouraged and requested throughout the public information meetings and public review opportunities. The Preferred Action has been the subject of most of the public review process.

CHAPTER 4: ENVIRONMENTAL CONSEQUENCES

4.1 PHYSICAL ENVIRONMENT

4.1.1 Soils

Preferred Action – Shooting Range - More than half the soils on the proposed site will be disturbed to level the range. Soil type is 100% Summit silty clay loam. Cut material will be piled and compacted into the side and end berms. Dirt to be used as top layer will be screened for rocks. Topsoil will be stockpiled, and returned to the finished surface of the floor of the range and the berms. The area will then be seeded. Depth to groundwater

averages two feet near the firing line, so care will be taken to dig down to the water table and create wet areas.

Shotgun range – No berms will be built at the shotgun range, and no soil disturbance is anticipated, except in the construction of the firing line and trap/skeet houses. All areas not covered in concrete or structures will be reseeded.

KDWP and HR &TF are aware that concerns about lead bullets and shot contamination might arise during operation, and if the area were eventually closed. In order to be proactive, and to lessen the potential of lead, and based on information contained within Best Management Practices for Lead at Outdoor Shooting Ranges (EPA, 2003), HR & TF has chosen the following for lead management.

1. The pH level in the shot fall and bullet impact areas of the berms on the rifle and pistol ranges will be checked once a year. Lime will be added to the soil to maintain a pH of 6.5 to 8.5.
2. Two retention ponds with stop-log structures will be constructed to catch run-off from the rifle/handgun range and from the trap/skeet area so that it can be tested and appropriate action can be taken if necessary.
3. Records will be kept on the number of clay targets thrown. After approximately 800,000 targets thrown in the shot fall area will be reclaimed, by a contractor. It is estimated that the reclamation will occur about every five years.
4. Records will be kept of the approximate number of rounds fired per firing lane on the rifle and pistol range. After approximately 80,000 rounds have been fired per firing lane, the lead in the berm will be reclaimed.

Two water monitoring stations will be placed where the two ditches identified in Section 3.1.2 (one on the west side of the area and the other that runs on the east side) meet and be tested for lead concentrations. One water monitoring station will be located by the skeet/trap range and the other by the 50/100/200 yard ranges.

No Action – No soil disturbance will occur.

Alternative 2 – Construction of the firing line and placement of the skeet and trap houses will be the only soil disturbance that will occur. Disturbed areas not covered by concrete or the building footprint will be seeded to grass.

Depth to groundwater is 14 inches in the area of the firing line and at least two feet in most of the shotfall zone. No disturbance is anticipated.

4.1.2 Topography

Preferred Action – Areas within the ranges will be leveled, or finished at a one percent slope away from the firing line, and eight foot side berms and a 20 foot end berm will be constructed. Drainage within the berms will be through a culvert from the rifle range to

the handgun range and hence to the existing ditch on the west side of the site. Drainage around the safety zone would remain the same.

Accumulation of broken and intact clay targets may result in formation of small unintentional receptacles that could retain water. As part of maintenance on the area, concentrated piles of clay targets will be removed.

No Action – Topography would not change and storm water drainage would remain the same.

Alternative 2 – Topographic change will only be at the actual construction sites of the firing line and trap/skeet houses, and is so slight over the site that no changes would be anticipated.

4.1.3 Cumulative Effects

Since this area is in Hillsdale State Park, and overall development will continue to maintain a park-like setting for outdoor recreation, the cumulative effects within the park should be minimal. Any additional development will take place within the 30 acre footprint of the shooting range. In the future, more development could occur surrounding the park, increasing the value of the open space, natural topography, settings, and recreational values offered by the park. Minimal impacts are anticipated to the physical environment in the immediate area.

4.2 BIOLOGICAL ENVIRONMENT

4.2.1 Vegetation

Preferred Action – All trees would be cleared from the rifle and handgun ranges. Areas within the berms would be reseeded to permanent vegetation conducive to mowing and lead reclamation, and to a species that is least palatable to wildlife in the area, with deer as a priority. The shotgun range will also be cleared of all trees within the shot fall area, and reseeded in the same manner. Vegetation in the safety zone will not be disturbed, unless tree removal is necessary in the future for operation and maintenance.

Mowing will occur on all ranges, and the areas of the safety zone that are currently free of woody vegetation. Grass on these areas will be cut regularly during the breeding seasons (April 15 - July 15) to ensure that the site does not attract migratory or non-migratory birds. Monitoring of the area for *Sericea lespedeza* will continue.

Alternative 2 – All trees would be cleared from the site. Approximately 3000 feet of riparian corridor averaging 50 feet wide would be cleared and reseeded to an appropriate tall grass species. Mowing will occur to maintain the shot zone to keep it free of woody vegetation.

No Action – Vegetation will not be disturbed, except for *Sericea lespedeza* control and natural succession will occur. The small area of remnant prairie should expand over time and act as a seed source to the succession of the rest of the area.

4.2.2 Federal Threatened and Endangered Species

Preferred Action and No Action – There should be no affect to any Federal threatened and endangered species from any of the alternatives because no species occupy the area since the area does not provide suitable habitat.

4.2.3 State Wildlife Species

Preferred Action – A fence will be constructed around the perimeter of the project area, primarily for safety reasons, but it will also act as a deterrent to wildlife, mainly deer, from entering the area. Fencing will be a standard height (four to five feet). Effects of the loss of this habitat should be minimal, since similar areas totaling over 650 acres are available in the immediate area within the park, with a similar or lesser disturbance factor.

No Action – As the field goes back to a more natural state, wildlife use may change. Some native grasses and perennial vegetation may be more palatable to deer and other species, and wildlife use may increase. However, due to its location near traffic by the dam and a paved road, this additional wildlife use may not occur.

Alternative 2 – Minimal loss of “go-back” hay meadow habitat will occur for the same reason described under the Preferred Action. The riparian corridor will be converted to grass. About 18 acres of habitat loss for riparian species would occur. About 200 acres of riparian habitat will remain intact on the State Park. There is low potential for effect to the spotted skunk (State Threatened status), since it historically occupies riparian areas in Miami county.

4.2.4 Cumulative Effects

The Preferred Action and Alternative 2 would result in minimal impacts since this area is in Hillsdale State Park, and overall development will continue to maintain a park-like setting for outdoor recreation. In the future, more development could occur surrounding the park, increasing the value of the open space, natural habitats and large contiguous areas of undeveloped land within the park. The No Action alternative would result in no expected changes in impacts from the current activities.

4.3 LAND USE

Preferred Action – A net positive impact is anticipated. Use of the area will change from non-specialized use to much more intensive use as a shooting range. This project will provide shooting opportunities for the public in a very populous area of the state where shooting opportunities are limited.

The Multiuse trail will be relocated, and a warning system will be installed for when the range is in use, but no overall change in trail use is anticipated.

No Action – Land use will remain the same.

Alternative 2 – A net positive impact is also anticipated. However, since it does not include the rifle ranges, it would be less than the Preferred Action.

4.4 CULTURAL/HISTORIC RESOURCES

Preferred Action and Alternative 2 – No impacts are anticipated. If historic/archeological resources are encountered during construction or operation, all operations will cease, and the State Historic Preservation Office will be consulted before any work or operation is resumed.

No Action – No impacts will occur.

No cumulative impacts are anticipated.

4.5 NOISE

Preferred Action – Noise levels will increase with the construction of the shooting range. A sound level check of firearms and sources of sound was conducted by Virgil Corbin, Natural Resource Officer, HILP on April 29, 2008 with a Radio Shack model 33-2055 sound level meter. He tested various sources of noise from approximately 30 feet behind the firing line, outlet parking lot on the west side near the existing vault toilet, gatehouse at the entrance to Jayhawk boat ramp, parking lot at the Park Office, and on Harmony Road (Table 2). Eight different guns were used in the check including: .22 caliber handgun, 9mm handgun, .45 caliber handgun, .22 caliber rifle, .223 caliber rifle, .308 caliber rifle, 30-06 caliber rifle, 12 gauge shotgun.

Table 2: Sound Level Readings in Decibels (dB)

LOCATION	SOURCE OF SOUND	dB reading	DISTANCE FROM FIRING LINE	COMMENTS
behind firing line	.22 caliber handgun	63	30"	lowest reading
	.223 caliber rifle	68	30'	highest reading
Outlet parking lot, W side, near vault toilet	.22 caliber handgun	51	500'	lowest reading
	30-06 cal rifle	63	500'	highest reading
Outlet canal	release water in canal	80	250'	
Entrance to Jayhawk boat ramp	all weapons	0	3/4 mi to west	shots could be heard, but did not register on meter
	vehicles on dam	52-57	immediate vicinity	
Park Office	all weapons	0-52	1/2 mi to east	
	passing vehicles		immediate vicinity	
N 255 St and Harmony Road	all weapons	0	1 mi +	shots could be heard, but did not register on meter
S 255 St and Harmony Road	all weapons	0	1 mi +	shots could be heard, but did not register on meter
	passing vehicle	77	immediate vicinity	
	small plane	67-69	unknown	plane flying over the area

No Action – Noise levels at the site would not change.

Alternative 2 – No sound tests were run, but levels from shots fired would be expected to be higher than those heard at the office for the Preferred Action, since there is no intervening topography. Approximately 30 residences are within a distance that shots could be heard.

The sound from shots fired may be heard by the users at the remote model aircraft field.

4.6 RECREATION

Preferred Action – The range will be open to the public approximately 40 hours per week. Daily hours of operation will be adjusted according to daylight hours and majority user preferences.

The population base to the north is much larger, and includes Johnson County. Several of the commenters come from that area. They expressed support of the range and desire to use it.

Because of the large population base surrounding the project and the fact that it will have rifle, handgun and shotgun use, it is estimated that there will be 100 people using the range on some of the public use days (Robins, 2010).

No Action – Recreational use will remain non-specific and diversified. The multipurpose trail will continue to be used in its present location.

Alternative 2 – The remote controlled aircraft field will be screened by trees from the shotgun range, so it should experience less negative impacts from the noise

Since this range will be shotgun only, usage would be much less than that projected for the Preferred Action.

Due to the location in Hillsdale State Park, and overall development will continue to maintain a park-like setting for outdoor recreation, cumulative effects within the park should be minimal. In the future, more development could occur surrounding the park, increasing the value of the open space, natural topography, settings, and recreational values offered by the park.

4.7 SAFETY

Preferred Action – The shooting range will provide a positive impact to safety in the area. It will provide a safe location to sight in rifles and shotguns and marksmanship practice. This range will provide a safe, confined and controlled environment for this activity. The range will also be used for Hunter Education classes, and the live-fire portion of classes.

On-site, precautions will be taken by relocating the multiuse trail and flags will be flown to alert users when the range is in use. A large safety zone will be established and the entire area will be fenced.

No Action – There would be no change from the current condition and dispersed shooting will continue. Complaints and concerns from adjoining property owners regarding safety and trash/debris issues will continue.

Alternative 2 – This range would also provide a positive impact, but those impacts would be limited to shotgun users. Rifle and handgun users would continue to lack a safe place to practice marksmanship and sight in guns.

A negative impact would be that patrol and control of use on this range would have to be increased, since it is close to a road (300 feet north of the road), and there are no plans to fence the area. The seven houses to the east of the range are at least 400 feet away from the shotfall zone (approximately 1350 feet from the firing line), but may still have concerns, since no natural berms exists.

A group similar to the HR & TF would be formed to manage the range. Firing direction would be to the north, so road users would not be affected.

4.8 LOCAL SOCIOECONOMIC CONDITIONS

Preferred Action – The shooting range will provide a positive impact due to increased use of the area. Locally, shooters will increase sales of gas, food, and lodging. More dispersed increases in sales of ammunition, guns and accessories should occur for area sporting goods and gun stores.

No Action – There would be no change from the current condition.

Alternative 2 – This range would also provide a positive impact due to increased use of the area, and consumption of gas, food and lodging by the shooters. However, since the range only accommodates shotgun users, the positive gains would be less than that of the Preferred Action.

CHAPTER 5: COORDINATION AND CONSULTATION - AGENCIES

KDWP is required to submit a letter of request for approval of the shooting range to the COE, and has worked closely with them (James D. Bell as lead contact) on this project, incorporating their suggestions and requirements. The latest meeting was held on July 12, 2010 at the COE office at Hillsdale Reservoir. To date, they have no objections to the project.

KDWP contacted the Miami County Planning Department inquiring about regulations that may be applicable. No concerns were expressed at this time. If a septic system is installed, further coordination with Miami County Planning will be made (Appendix 15).

KDWP contacted Steve Samuelson, Kansas Department of Agriculture, Division of Water Resources in regard to floodplain mapping. Mr. Samuelson provided a Floodplain Insurance Rate Map (FIRM) showing floodplain delineations. The project does not fall into any floodplain zones (Appendix 16).

KDWP has a letter of inquiry to Kansas Department of Agriculture, Division of Water Resources (DWR) as recommended by Steve Samuelson, DWR, for any other

requirements that office may have. DWR has determined that the project is not within their jurisdiction, and “a state permit will not be required...unless special public interest issues are identified” (Appendix 17).

KDWP has submitted a letter of inquiry to the SHPO. Action on historic/archeological sites will be coordinated with the COE. SHPO has determined that their office has no objection to the implementation of the project (Appendix 19).

KDWP has a Letter of Agreement with and a Special Use Permit for the HR &TF Club to manage and maintain the range once it is built (Appendices 4 and 18).

KDWP, Parks Division submitted an Environmental Services Review Checklist to the Environmental Services Section of KDWP. The review resulted in the determination that no possible impacts will occur in areas of their concern.

CHAPTER 6: PUBLIC INVOLVEMENT PROCESS

A public meeting was held on May 8, 2008 at the Miami County Commissioners Chambers on Paola, and comments solicited. The meeting was announced on April 25 and May 2 of that year in the Miami County Republic newspaper. Approximately 40 people attended. Comments were decidedly favorable, and in support of the need for the range as planned. A second public meeting was also held on June 12 in Paola (Appendix 20).

In addition to the public meetings, personal contacts were made with Carl Courtney, President of the Saddle Ridge Riders Club. A presentation was given to the club members on May 20, 2008. Seventeen members attended, and moving the multipurpose trail and the flags for signaling was discussed. The meeting ended with everyone wanting to continue working together on planning (Appendix 20).

Contact was also made with J.R. Kendall, President of the Eastern Kansas Arabian Horse Association. His concern about losing part of the trail was discussed and, in the end, he had no major objections to the project (Appendix 20).

Mary McDivette, a member of both horse associations was also individually contacted. She later expressed concern about noise levels, lead contamination and liability (Appendix 20).

KDWP contacted Brad Goodarte, a property owner adjoining HILP. He felt the skeet/trap ranges were too limited in scope. He had no other objections to the project, and offered to help acquire additional funding, and donate concrete for the shotgun range walkways (Appendix 20).

KDWP also contacted six homeowners on North and South Harmony Road, adjacent to HILP. Two of the six did not want the range, but only one submitted a comment sheet.

The other four were in favor of the range. Contact was attempted at four other homes, but was unsuccessful (Appendix 20).

Nineteen comment sheets, one typed note and 14 e-mails were submitted, and are included in Appendix 20. One comment sheet expressed cautions against the project. The rest were in support of the project.

KDWP has a Letter of Agreement with, and a Special Use Permit for the HR &TF Club to manage and maintain the range once it is built (Appendices 4 and 18). This club was developed by interested parties, and is working cooperatively with KDWP.

CHAPTER 7: PREPARERS

This document was prepared by Laurel Yasui (Parks Division) and Ross Robins (Chief, Education) with assistance from Gary Lucas, Manager HILP, and Virgil Corbin (Ranger HILP), all with KDWP for the Parks Division, under Linda Lanterman (Acting Division Director). Schwab-Eaton P. A. was contracted by KDWP to do the engineering and design work. KDWP Federal Aid Coordinator, Carl Magnuson submitted the document to the USFWS, where it was reviewed and commented upon by Otto Jose and Amanda Horvath.

CHAPTER 8: WORKS CITED

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Appendix 1

Appendix 2



SCALE 1" = 100'



PROPOSED CONSTRUCTION SEQUENCE

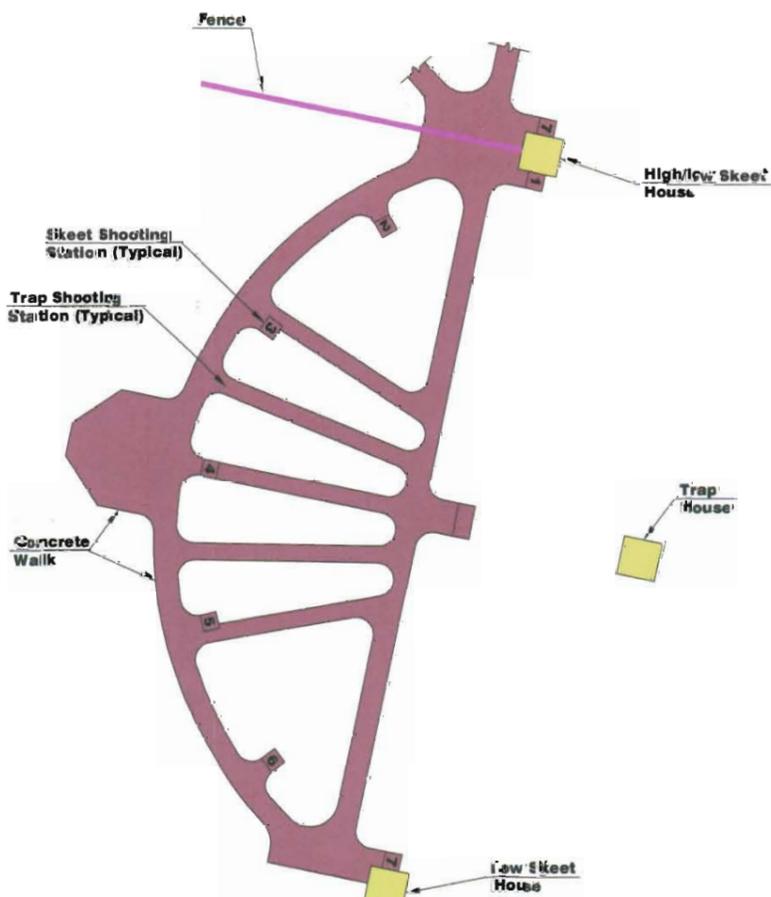
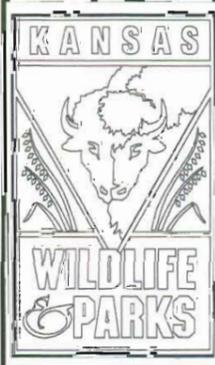
- Phase 1 (P1)**
1. Grading and berms for 50 yd and 100 yd ranges
 2. Grading for roadway and parking
 3. Site grading for trap/skeet field
 4. Covered firing lines for 50 yd and 100 yd ranges
 5. Overhead baffles for 50 yd and 100 yd ranges
 6. Perimeter fencing with signage
- Phase 2 (P2)**
1. Extend electrical service to site
 2. Classroom/Storage building
 3. Restroom
 4. Gate house
 5. Trap/Skeet field
- Phase 3 (P3)**
1. Grading and berms for law enforcement and 200 yd ranges
 2. Grading for roadway and parking for law enforcement range
 3. Covered firing line for 200 yd range
 4. Overhead baffles for 200 yd range

GENERAL CONSTRUCTION CONSIDERATIONS

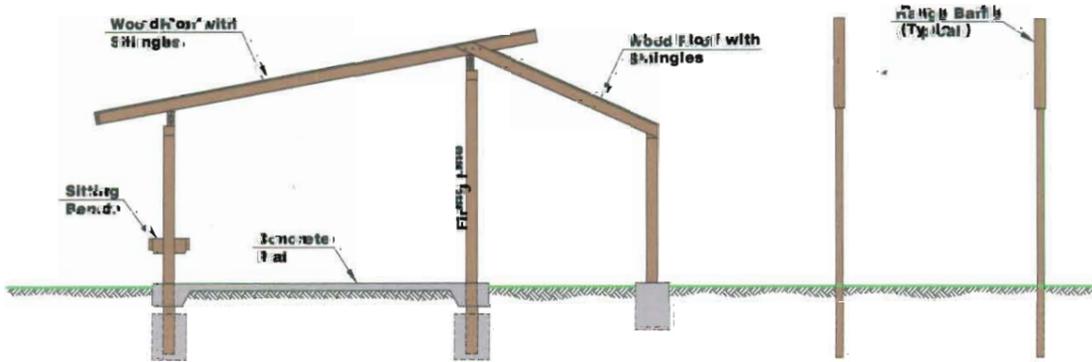
1. Earthen berm construction to provide minimum 8 ft high side berm and 20 ft high end/impact berm.
2. Interior berm slope 1.5:1, exterior slope 4:1.
3. Range baffles positioned down range to maintain "No Blue Sky" concept.
4. ADA parking to be provided.
5. All disturbed areas to be seeded.

PROJECT NO 06.0241
 DATE 3/23/04
 DRAWN BY TS
 CHECKED BY TB
 REVISION

Schwab-Eaton, P.A.
 CIVIL ENGINEERS • LAND SURVEYORS
 AND LANDSCAPE ARCHITECTS
 1125 Garden Way • Manhattan, Kansas 66502
 Phone (785)539-4687



TRAP/SKEET SHOTGUN FIELD



Section

TYPICAL COVERED SHOOTING AREA

HILLSDALE SHOOTING RANGE

Hillsdale, Kansas
 Kansas Department of Wildlife and Parks
 Operations Headquarters
 512 SE 25th Avenue Pratt, Kansas 67124

SHEET
C1
 SITE LAYOUT

Appendix 3

Hillsdale range and training Facility of East Central Kansas

STANDARD OPERATION PROCEDURES (SOP)

1. **Facilities:** The Hillsdale Range is available to the public 40 hours per week. Dates and times will be posted at the range, on the Hillsdale State Park web page, on the KDWP web page and local papers. The range will be open 2 days per week for members and/or special events. Daily range use fees for non-members are; \$10.00 per person, under age 16 free when under the supervision of a paying adult (18 years of age or older). A Range safety officer must be present during live fire. Targets are available at the range house; target style and cost are posted at the range house.

2. **Authorized Persons:** The following persons are allowed to use the range:

- a. Public and Members of HR&TF who are in good standing.
- b. Anyone using the range must sign-in and sign a "covenant not to sue" form, and pay the proper fees.
- c. Individuals/groups approved by the club or CRSO on a case by case basis. For example, Hunter Education Classes, Law Enforcement training, 4-H clubs, Scout groups etc.

3. **Authorized and Prohibited Firearms.** All muzzle-loading firearms may be used. Fully automatic firearms are not authorized. Tracer and armor-piercing ammunition are prohibited. Air rifles or pistols are allowed.

Rifle Range: All rifles smaller than fifty-caliber center-fire. Pistols of any caliber may be fired at the rifle range, only at the 100 yard targets. Shotguns may be fired with slugs only.

Pistol Range: Any caliber pistol may be fired at the pistol range and only rim fire rifles.

4. **Responsibilities.**

a. Hillsdale Range & Training Facility of East Central Kansas.

- 1) Maintain range facility.
- 2) Provide RSO, firearm safety, and other training to promote the shooting sports in the community.
- 3) Provide written schedule of public use and shooting events.

b. Chief Range Safety Officer (CRSO)

- 1) Assist the club in conducting Range Safety Officer (RSO) training.
- 2) Ensure each RSO understands and can execute live fire procedures.
- 3) Recommend changes to the range SOP as needed.
- 4) Serve as RSO.

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c. Range Safety Officers are approved by the HR&TF president or Chief Range Safety Officer. They must attend an RSO class given by or approved by the CRSO or the National Rifle Association.

- 1) Assure that all necessary items are available before each shooting session: forms, radio, first-aid kit, range SOPs, flags, etc.
- 2) Conduct range inspection using check list for the range.
- 3) Check that members have current club cards. Collect non-member fees. Assure that all shooters/observers have "covenant not to sue" forms on file.
- 4) Conduct range safety briefing.
- 5) Conduct live fire in accordance with the above safety rules. Evict shooters who commit serious infractions of the safety rules and report to the HR&TF President for possible suspension of future shooting privileges. Report all incidents to the CRSO.
- 6) Turn on red lights before shooters start downrange. Turn off lights when all shooters are back behind firing line. **Anyone on the firing line may call cease fire and turn on the red light if they see someone down range.**
- 7) Keep the gate locked at all times when the range is not open to the public.

5. **Range Safety.** RSO's will be present when the range is open to the public or during live fire at the range. All shooters are required to follow the directions of the RSO. If an HR&TF member is shooting while the range is closed to the public, the member is responsible for following the safety rules. RSOs are responsible for assuring that each shooter has signed in and completed a "covenant not to sue" agreement (if one is not on file). The range flag must be displayed while shooting.

All shooters will observe the following safety rules:

a. **ALWAYS KEEP THE GUN POINTED IN A SAFE DIRECTION**

ALWAYS KEEP YOUR FINGER OFF THE TRIGGER UNTIL READY TO SHOOT

ALWAYS KEEP THE GUN UNLOADED UNTIL READY TO USE

- b. Fire only authorized firearms and ammunition.
- c. Only load firearms on the firing line and after the RSO (if present) have given the command to load.
- d. No shooting across firing lanes.
- e. Any shooter should give the command "Cease Fire" if an unsafe condition occurs.
- f. Firearms must be benched (actions open and facing up, chambers empty, and muzzles pointing in a safe direction) when the red lights are on, indicating people may be downrange.
- g. Shoot only from the designated firing line.

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- h. Fire at authorized paper targets held in the provided stands only. No glass, metal, box, or other targets are allowed.
 - i. Insure all projectiles impact within the established range safety limits.
 - j. Use appropriate ear protection.
 - k. Wear appropriate eye protection.
 - l. Notify RSO or CRSO of any safety infraction or unsafe equipment.
 - m. Firearms that are out of the case and not being fired must be benched, holstered, or in the provided racks.
 - n. All shooters are responsible for their guns, ammunition, and other personal property while at the range.
 - o. Police all brass, paper, and other debris after shooting. **Brass goes in the Brass bucket everything else in the trash cans**
 - p. Shooters may not consume alcoholic beverages or illegal drugs, or any prescription or over the counter drugs that would impair shooting ability while on range property.
 - q. Wash hands with cold water before eating, drinking, or smoking to avoid lead contamination.
 - r. No pets are allowed on the range.
6. **Emergency procedures.**
- a. Take charge of situation.
 - b. Evaluate severity of injuries and need for assistance.
 - c. Render aid.
 - d. Call 911, if needed
 - e. Direct medical help to location.
 - f. Complete Emergency Report Sheet

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Appendix 4

Department property.

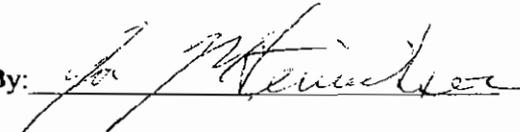
- C. All Club funds shall be managed and held by the Club.
- D. The Hillsdale State Park Manager shall act as liaison to the Club on behalf of the Department, and shall be the primary contact representing the Department. The Club shall assign contact people from their membership to act as liaison to the Department.
- E. All improvements, additions, and renovations made to Department property by the Club, including but not limited to buildings, grounds improvements, storage facilities, concession facilities, utility systems and parking areas, shall become the property of the Department upon their placement on Department property, unless otherwise agreed in writing by the Department and the Club. Upon acceptance of any such facilities, the Department shall assume liability for those which it operates. No improvements, additions or major repairs shall be performed or placed on Department property without the prior written approval of the Department. The Club shall supply plans and drawings as requested by the Department for evaluations of proposed improvements or additions to, repair or renovation of buildings or facilities. The Department may condition, limit or deny approval.
- F. Although it is the intent of the parties to participate in mutually agreeable projects, they both recognize the Department shall have final authority to determine how Club-raised funds are spent on Department property or on behalf of Department programs.
- G. Should it appear likely that the Club will be unable to raise sufficient funds to complete an approved project upon which it is working, such funds raised by the Club may be transmitted to the Department to be used for that project or for another Department-project identified in consultation with the Club. If the HR & TF complex ceases to exist, any funds raised by the Club shall be used for the benefit of other jointly-approved Department programs or facilities.
- H. Amounts raised by the Club may be used only for the benefit of HR & TF. If the Club ceases to exist, any funds raised by the Club shall become the property of Hillsdale State Park and shall be used for the benefit of the HR & TF complex under the terms and conditions of this Agreement.
- I. This Agreement may not be assigned in whole or in part without the prior written approval of the Department.
- J. This Agreement may be modified only through written agreement by the authorized representatives of the parties.
- K. This Agreement shall terminate ten years from the date first written above, upon ninety (90) days written notice from either party, or at any time upon mutual written agreement of the parties.
- L. This Agreement shall not become effective until the Club has developed, and the Department has approved, a plan of operations for Club activities concerning the HR & TF.

The Agreement hereby approved by the authorized representatives of the parties.

Kansas Department of Wildlife and Parks

Hillsdale Range & Training Facility

By: _____
Jerold Hover Director Parks Division

By: 
Printed Name: Joe Heinerikson

Title: President _____

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Appendix 5

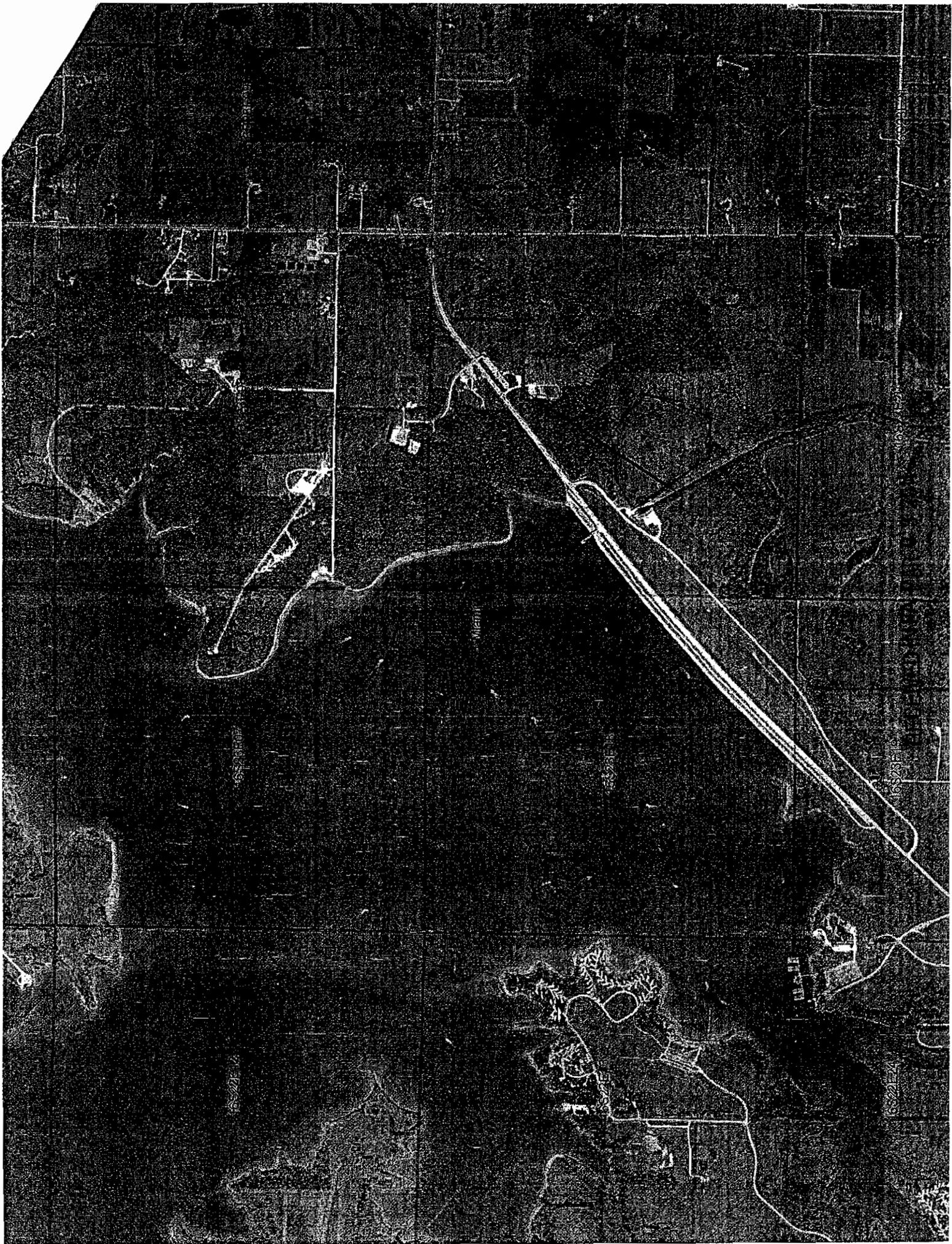
LETTER OF AGREEMENT
between
KANSAS DEPARTMENT OF WILDLIFE AND PARKS
and
HILLSDALE RANGE & TRAINING FACILITY OF EAST CENTRAL KANSAS

This agreement is made and signed on the _____ day of _____, 2009 between the Kansas Department of Wildlife and Parks, hereinafter referred to as the "Department," and the Hillsdale Range & Training Facility of East Central Kansas, hereinafter referred to as the "Club", regarding the Hillsdale Range and Training Facility, hereinafter referred to as the "HR&TF."

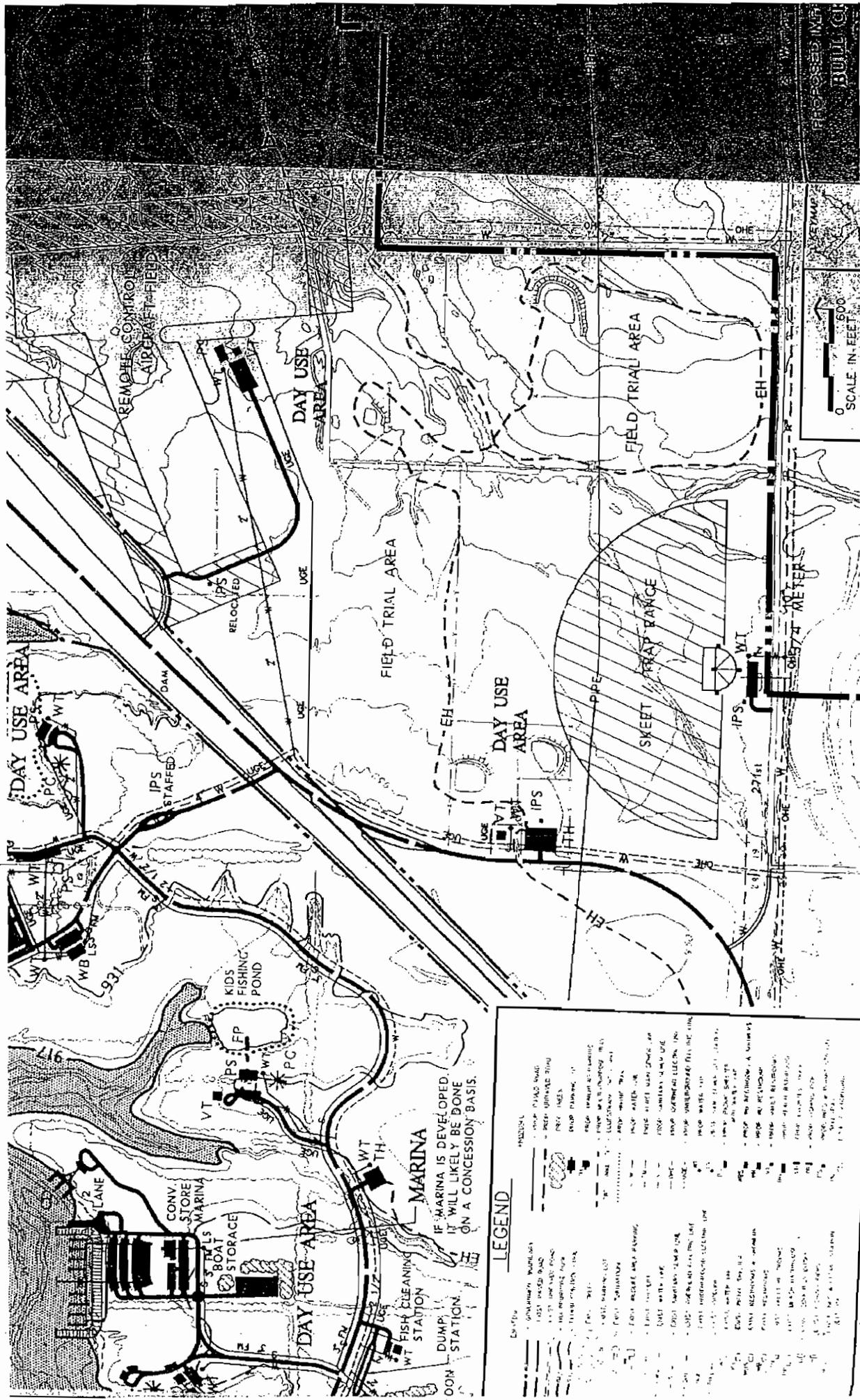
Both the Department and the Club wish to enter into an agreement setting forth a relationship between themselves by means of which they work toward the improvement, development, maintenance and proper management of HR & TF. They agree as follows:

- A. Subject to the limits and conditions described below, the Club may:
1. Receive and disburse earned and donated funds, materials and equipment for the benefit and support of HR & TF, on the property of Hillsdale State Park. However, prior written approval of the Department is required before accepting any donation of funds, materials, or equipment on behalf of the Department, or before undertaking any improvements or construction on Department property.
 2. Charge entry or participation fees for special events and recreational activities conducted by the Club and allowed under state and federal laws, codes, rules and regulations, and when approved in advance in writing by the Department as further set forth herein.
 3. Assist in the operation, development and maintenance of HR & TF as approved in writing by the Department.
 4. Provide educational or interpretive materials, literature, and services as approved in writing by the Department for sale at HR & TF.
 5. Conduct educational, recreational, and interpretive activities, special programs, shows, auctions, and special events and other fund-raising activities as approved in writing by the Department.
 6. Provide food, non-alcoholic beverages, and souvenirs for sale during special events and programs approved in writing by the Department.
- B. The Department shall review in advance and provide timely approval, as appropriate, for the following (and no such activities or actions shall be allowed without Department approval):
1. Any operations of the Club to take place at HR & TF, including development or maintenance activities, and the location, times and operations of any interpretive or educational activities, sales, shows, sports and special programs.
 2. The content, quality, quantity and price of educational and interpretive materials and literature; foods and non-alcoholic beverages; and souvenirs offered for sale to the public by the Club during special events and programs.
 3. The nature, content and scope of activities and special events, and entry or participation fees charged by the Club.
 4. Any proposal in which Club raised funds would be spent on HR & TF.
 5. Any construction or improvement project as a result of Club activities, as well as any expenditures having the purpose of undertaking construction on HR & TF. The Department retains the right to inspect or supervise any such project occurring on

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Appendix 6



10/1/13
 3" / 1" = 100'

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Appendix 7



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Area of Interest (AOI) | Soil Map | Soil Data Explorer | Shopping Cart (Free)

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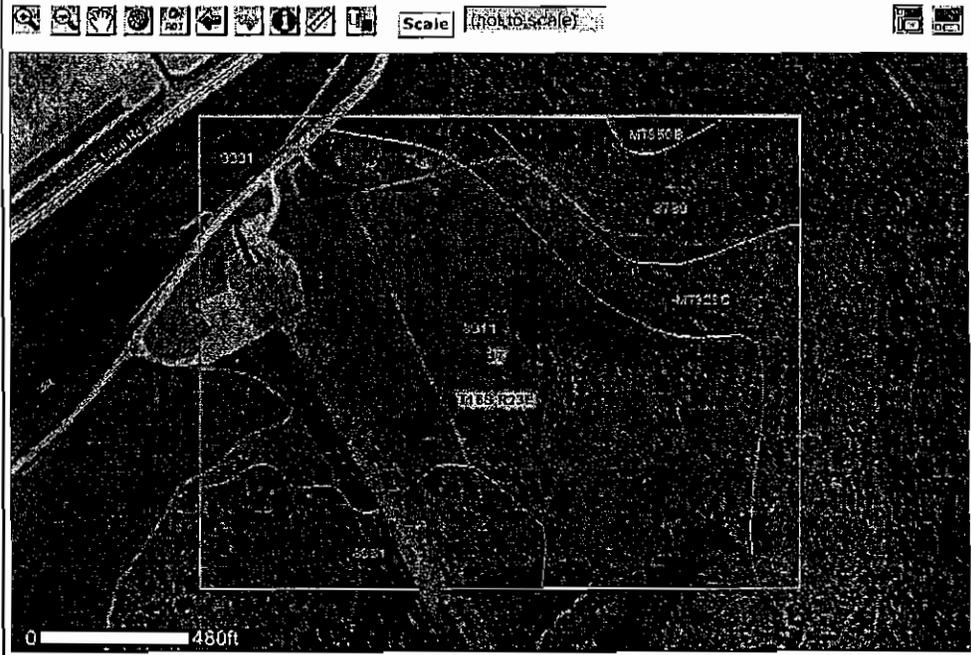
Search

Map Unit Legend

Miami County, Kansas (KS121)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
8789	Lebo channery silty clay loam, 15 to 30 percent slopes	7.5	10.9%
8911	Summit silty clay loam, 1 to 3 percent slopes	40.6	59.5%
8961	Woodson silt loam, 0 to 1 percent slopes	8.6	12.6%
9991	Orthents, shallow	1.6	2.4%
MT328C	Bucyrus silty clay loam, 3 to 8 percent slopes	9.3	13.6%
MT850B	Wagstaff silty clay loam, 1 to 3 percent slopes	0.7	1.0%
Totals for Area of Interest		68.3	100.0%

Soil Map



Warning: Soil Map may not be valid at this scale.

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Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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Answers to the form of www.wfsa.net/pdf/WSA_2017.pdf

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Appendix 8



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Area of Interest (AOI) | Soil Map | Soil Data Explorer | Shopping Cart (Free)

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Properties and Qualities Ratings

Open All | Close All

Soil Chemical Properties

- Calcium Carbonate (CaCO3)
- Cation-Exchange Capacity (CEC-7)
- Effective Cation-Exchange Capacity (ECEC)
- Electrical Conductivity (EC)
- Gypsum
- pH (1 to 1 Water)
- Sodium Adsorption Ratio (SAR)

Soil Erosion Factors

Soil Physical Properties

- Available Water Capacity
- Available Water Supply, 0 to 100 cm
- Available Water Supply, 0 to 150 cm
- Available Water Supply, 0 to 25 cm
- Available Water Supply, 0 to 50 cm
- Bulk Density, 15 Bar
- Bulk Density, One-Tenth Bar
- Bulk Density, One-Third Bar
- Linear Extensibility
- Liquid Limit
- Organic Matter

Percent Clay

View Description | View Rating

View Options

Map

Table

Description of Rating

Rating Options

Detailed Description

Advanced Options

Aggregation Method Dominant Component

Component Percent Cutoff

Tie-break Rule Lower Higher

Interpret Nulls as Zero Yes No

Layer Options Surface Layer Depth Range
 Top Depth
 Bottom Depth

Map - Percent Clay



Warning: Soil Ratings Map may not be valid at this scale.

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Tables - Percent Clay - Summary By Map Unit

Summary by Map Unit - Miami County, Kansas

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
8789	Lebo channery silty clay loam, 15 to 30 percent slopes	28.0	7.5	10.9%
8911	Summit silty clay loam, t to 3 percent slopes	36.0	40.6	59.5%
8961	Woodson silt loam, 0 to 1 percent slopes	23.0	8.6	12.6%
9991	Orthents, shallow		1.6	2.4%
MT328C	Bucyrus silty clay loam, 3 to 8 percent slopes	28.0	9.3	13.6%
MT850B	Wagstaff silty clay loam, 1 to 3 percent slopes	32.6	0.7	1.0%
Totals for Area of Interest			68.3	100.0%

Description - Percent Clay

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. The estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter. The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (Ksat), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earth-moving

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View Options



- Inches
- Centimeters
- All Layers

[View Description](#) [View Rating](#)

Percent Sand
Percent Silt
Plasticity Index
Saturated Hydraulic Conductivity (Ksat)
Saturated Hydraulic Conductivity (Ksat), Standard Classes
Surface Texture
Water Content, 15 Bar
Water Content, One-Third Bar
Soil Qualities and Features  
Water Features  

operations.

Most of the material is in one of three groups of clay minerals or a mixture of these clay minerals. The groups are kaolinite, smectite, and hydrous mica, the best known member of which is illite.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options -- Percent Clay 

Units of Measure: percent
Aggregation Method: Dominant Component
Component Percent Cutoff: None Specified
Tie-break Rule: Higher
Interpret Nulls as Zero: No
Layer Options: Surface Layer

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Appendix 9



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 [Soil Properties and Qualities](#) |
 [Ecological Site Assessment](#) |
 [Soil Reports](#)

Search

Properties and Qualities Ratings

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Soil Chemical Properties

- Calcium Carbonate (CaCO₃)
- Cation-Exchange Capacity (CEC-7)
- Effective Cation-Exchange Capacity (ECEC)
- Electrical Conductivity (EC)
- Gypsum
- pH (1 to 1 Water)**

[View Description](#) |
 [View Rating](#)

View Options

- Map
- Table
- Description of Rating
- Rating Options
- Detailed Description

Advanced Options

- Aggregation Method: **Dominant Component**
- Component Percent Cutoff
- Tie-break Rule:
 - Lower
 - Higher
- Interpret Nulls as Zero:
 - Yes
 - No
- Layer Options:
 - Surface Layer
 - Depth Range
 - Top Depth
 - Bottom Depth
 - Inches
 - Centimeters
 - All Layers

[View Description](#) |
 [View Rating](#)

Sodium Adsorption Ratio (SAR)

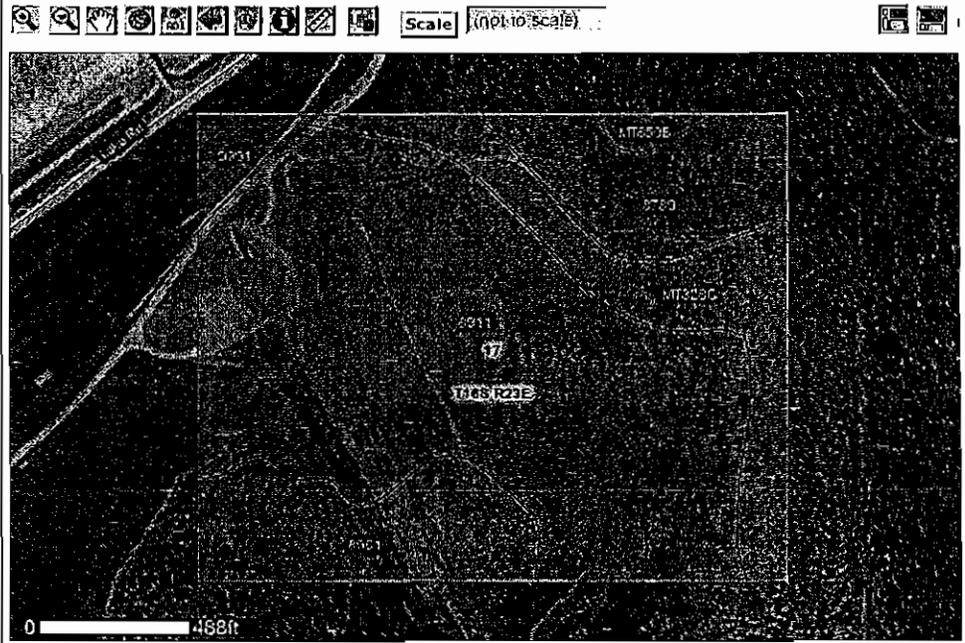
Soil Erosion Factors

Soil Physical Properties

Soil Qualities and Features

Water Features

Map — pH (1 to 1 Water)



Warning: Soil Ratings Map may not be valid at this scale.

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Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Tables — pH (1 to 1 Water) — Summary By Map Unit

Summary by Map Unit — Miami County, Kansas					
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
8789	Lebo channery silty clay loam, 15 to 30 percent slopes	6.7	7.5	10.9%	
8911	Summit silty clay loam, 1 to 3 percent slopes	6.6	40.6	59.5%	
8961	Woodson silt loam, 0 to 1 percent slopes	6.1	8.6	12.6%	
9991	Orthents, shallow		1.6	2.4%	
MT328C	Bucyrus silty clay loam, 3 to 8 percent slopes	6.2	9.3	13.6%	
MT850B	Wagstaff silty clay loam, 1 to 3 percent slopes	6.2	0.7	1.0%	
Totals for Area of Interest			68.3	100.0%	

Description — pH (1 to 1 Water)

Soil reaction is a measure of acidity or alkalinity. It is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion. In general, soils that are either highly alkaline or highly acid are likely to be very corrosive to steel. The most common soil laboratory measurement of pH is the 1:1 water method. A crushed soil sample is mixed with an equal amount of water, and a measurement is made of the suspension.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low

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value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options – pH (1 to 1 Water)

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Interpret Nulls as Zero: No

Layer Options: Surface Layer

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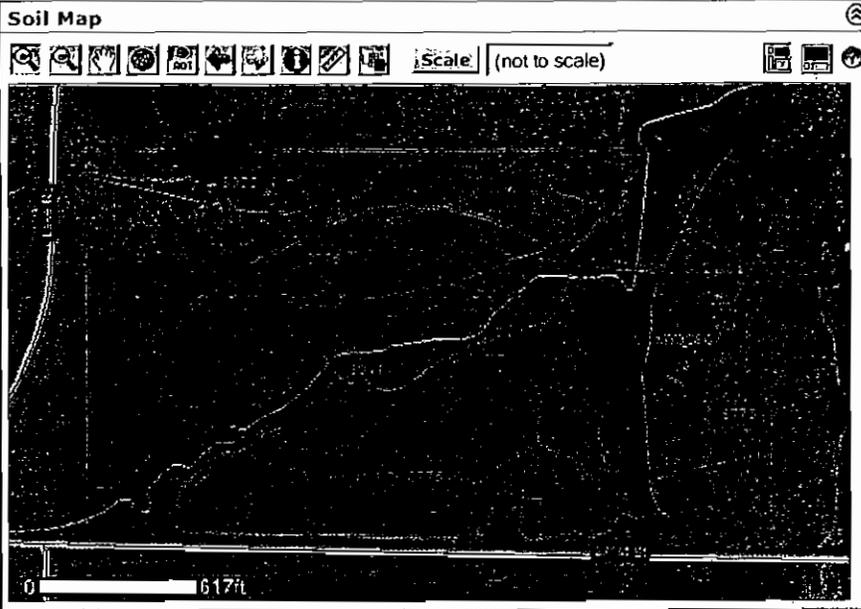
Appendix 10

Search

Map Unit Legend

Miami County, Kansas (KS121)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
8775	Kenoma silt loam, 1 to 3 percent slopes	39.7	41.3%
8911	Summit silty clay loam, 1 to 3 percent slopes	41.4	43.1%
8962	Woodson silt loam, 1 to 3 percent slopes	5.5	5.7%
MT328C	Bucyrus silty clay loam, 3 to 8 percent slopes	9.6	10.0%
Totals for Area of Interest		96.2	100.0%



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Appendix 11



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Soil Properties and Qualities

Ecological Site Assessment

Soil Reports

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Properties and Qualities Ratings

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Soil Chemical Properties

- Calcium Carbonate (CaCO3)
- Cation-Exchange Capacity (CEC-7)
- Effective Cation-Exchange Capacity (ECEC)
- Electrical Conductivity (EC)
- Gypsum
- pH (1 to 1 Water)
- Sodium Adsorption Ratio (SAR)

Soil Erosion Factors

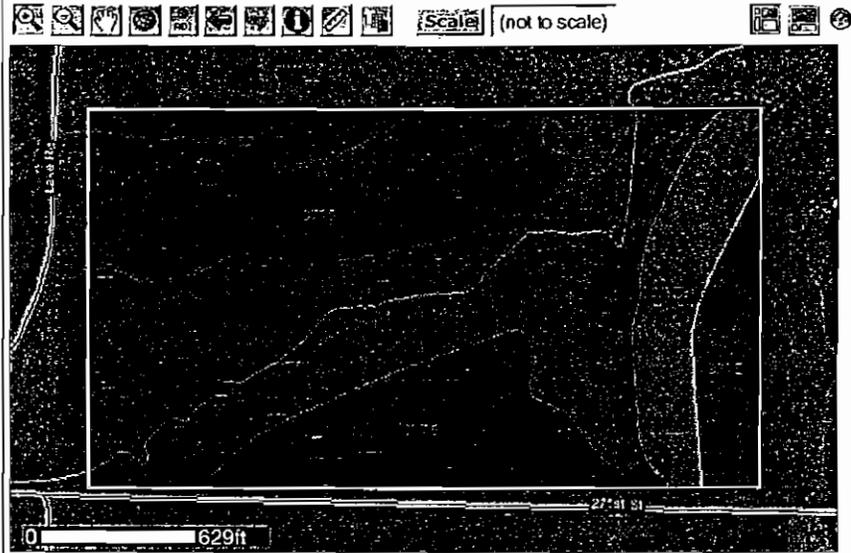
- K Factor, Rock Free
- K Factor, Whole Soil
- T Factor
- Wind Erodibility Group
- Wind Erodibility Index

Soil Physical Properties

- Available Water Capacity
- Available Water Supply, 0 to 100 cm
- Available Water Supply, 0 to 150 cm
- Available Water Supply, 0 to 25 cm
- Available Water Supply, 0 to 50 cm
- Bulk Density, 15 Bar
- Bulk Density, One-Tenth Bar
- Bulk Density, One-Third Bar
- Linear Extensibility
- Liquid Limit
- Organic Matter

Percent Clay

Map - Percent Clay



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Tables - Percent Clay - Summary By Map Unit

Summary by Map Unit - Miami County, Kansas

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
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8962	Woodson silt loam, 1 to 3 percent slopes	23.0	5.5	5.7%
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[View Description](#) [View Rating](#)

View Options

Map

Table

Description of Rating

Rating Options

Detailed Description

Advanced Options

Aggregation Method

Component Percent Cutoff

Tie-break Rule
 Lower
 Higher

Interpret Nulls as Zero
 Yes
 No

Layer Options
 Surface Layer
 Depth Range

Top Depth

Bottom Depth

Inches
 Centimeters
 All Layers

[View Description](#) [View Rating](#)

Percent Sand

Percent Silt

Plasticity Index

Saturated Hydraulic Conductivity (Ksat)

Saturated Hydraulic Conductivity (Ksat), Standard Classes

Surface Texture

Water Content, 15 Bar

Water Content, One-Third Bar

Soil Qualities and Features

AASHTO Group Classification (Surface)

Depth to a Selected Soil Restrictive Layer

Depth to Any Soil Restrictive Layer

Drainage Class

Frost Action

Frost-Free Days

Hydrologic Soil Group

Map Unit Name

Parent Material Name

Representative Slope

Unified Soil Classification (Surface)

Water Features

Depth to Water Table

Flooding Frequency Class

Ponding Frequency Class

affect tillage and earth-moving operations.

Most of the material is in one of three groups of clay minerals or a mixture of these clay minerals. The groups are kaolinite, smectite, and hydrous mica, the best known member of which is illite.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options — Percent Clay

Units of Measure: percent

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Interpret Nulls as Zero: No

Layer Options: Surface Layer

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Appendix 12

database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options — pH (1 to 1 Water)

Aggregation Method: Dominant Component

Component Percent Cutoff: *None Specified*

Tie-break Rule: Higher

Interpret Nulls as Zero: No

Layer Options: Surface Layer

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Appendix 13

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Intro to Soils Suitabilities and Limitations for Use **Soil Properties and Qualities** Ecological Site Assessment Soil Reports

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Soil Chemical Properties

- Calcium Carbonate (CaCO₃)
- Cation-Exchange Capacity (CEC-7)
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- Electrical Conductivity (EC)
- Gypsum

pH (1 to 1 Water)

View Description View Rating

View Options

Map

Table

Description of Rating

Rating Options

Detailed Description

Advanced Options

Aggregation Method Dominant Component

Component Percent Cutoff

Tie-break Rule Lower Higher

Interpret Nulls as Zero Yes No

Layer Options

Surface Layer Depth Range

Top Depth

Bottom Depth

Inches Centimeters

All Layers

View Description View Rating

Sodium Adsorption Ratio (SAR)

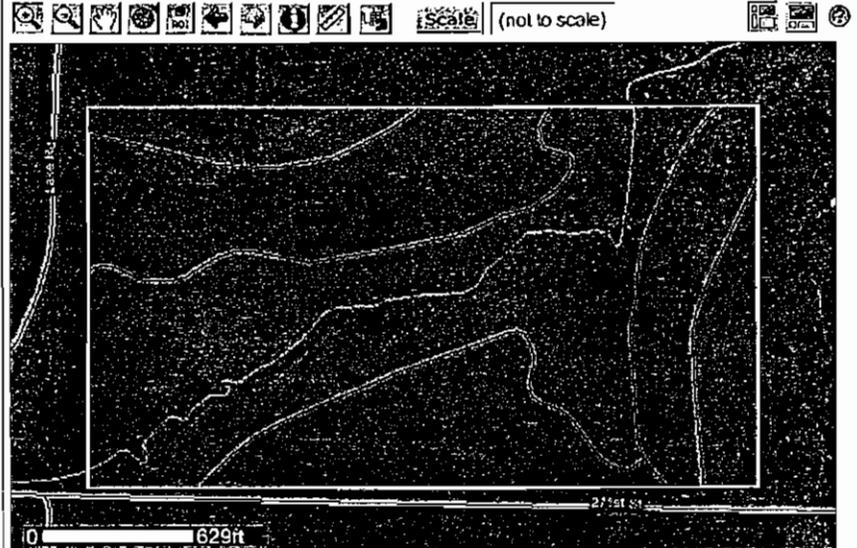
Soil Erosion Factors

Soil Physical Properties

Soil Qualities and Features

Water Features

Map - pH (1 to 1 Water)



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Description - pH (1 to 1 Water)

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*Spotted Skunk
Threatened - by Spotted Skunk*



Kansas Department of Wildlife and Parks

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Back to Site

Updated: 2/5/09

EASTERN SPOTTED SKUNK (*Spilogale putorius*)

KANSAS: Threatened
FEDERAL: N/A

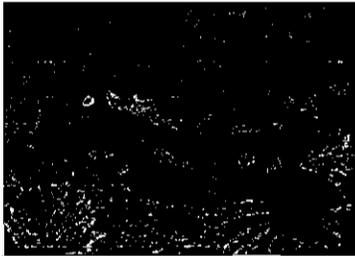


Photo by Bob Gress

SPECIES DESCRIPTION

This small (16-23 inches) skunk is more weasel-like in body shape than the more familiar striped skunk. The Spotted Skunk's strips are broken in pattern, giving it a "spotted" appearance.

Spotted Skunks seem to prefer forest edges and upland prairie grasslands, especially where rock outcrops and shrub clumps are present. In western counties, it relies heavily on riparian corridors where woody shrubs and woodland edges are present. Woody fencerows, odd areas, and abandoned farm buildings are also important habitat for Spotted Skunks.

Spotted Skunks may occur in suitable habitat anywhere in the state. The marked counties are those for which occurrence has been documented or within which critical habitat has been designated.

SPECIES PROTECTION AND CRITICAL HABITATS

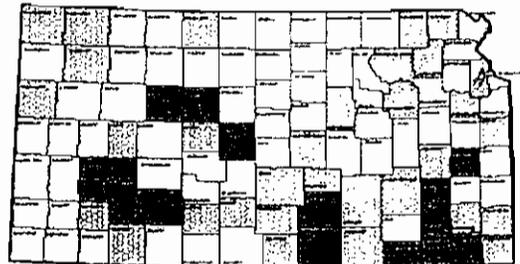
Eastern Spotted Skunks are protected by the Kansas Nongame and Endangered Species Conservation Act and administrative regulations applicable thereto. Any time an eligible project is proposed that will impact the species' preferred habitats within its probable range, the project sponsor must contact the Environmental Services Section, Kansas Department of Wildlife and Parks, 512 SE 25th Ave., Pratt, Kansas 67124-8174. Department personnel can then advise the project sponsor on permit requirements.

DESIGNATED CRITICAL HABITATS

As defined by Kansas Administrative Regulations, critical habitats include those areas documented as currently supporting self-sustaining population(s) of any threatened or endangered species of wildlife as well as those areas determined by the Kansas Department of Wildlife and Parks to be essential for the conservation of any threatened or endangered species of wildlife.

Currently, the following areas are designated critical for Eastern Spotted Skunks:

- (1) All suitable habitat within Barton, Anderson, Woodson, Wilson, Chautauqua, Montgomery, and Labette counties.
- (2) All suitable habitats within the Cowskin Creek and Big Slough drainage basins located in Sedgwick and Sumner counties.
- (3) All suitable habitat within a riparian corridor along the main stem Arkansas River in Finney, Ford, and Gray counties. The corridor's outermost boundary is along a line 0.5 mile landward from the named stream's ordinary high water mark on each bank.
- (4) All suitable habitats within the Big Creek drainage basin located in Ellis and Trego counties.



Eastern Spotted Skunk 50.61 kB

Map Key

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Appendix 14

ATTACHMENT 14 - WILDLIFE SPECIES LIST
 SPECIES POSSIBLY OCCURRING AT ALL ALTERNATIVES

REPTILES	
Fence/Prairie/Plateau Lizard	<i>Sceloporus undulatus</i>
Collard Lizard	<i>Crotaphytus collaris</i>
Slender Glass Lizard	<i>Ophisaurus attenuatus</i>
Five-Lined Skink	<i>Eumeces fasciatus</i>
Prairie Skink	<i>Eumeces septentrionalis</i>
Great Plains Skink	<i>Eumeces obsoletus</i>
Ground Skink	<i>Scincella lateralis</i>
Six-Lined Racerunner	<i>Chemidophorus sexlineatus</i>
Worm Snake	<i>Carphophis amoenus</i>
Racer	<i>Coluber constrictor</i>
Ringneck Snake	<i>Diadophis punctatus</i>
Corn Snake	<i>Elaphe guttata</i>
Rat Snake	<i>Elaphe obsoleta</i>
Western Hognose Snake	<i>Heterodon nasicus</i>
Eastern Hognose Snake	<i>Heterodon platirhinos</i>
Prairie Kingsnake	<i>Lampropeltis calligaster</i>
Common Kingsnake	<i>Lampropeltis getula</i>
Milk Snake	<i>Lampropeltis triangulum</i>
Gopher Snake	<i>Pitaophis melanoleucus</i>
Brown Snake	<i>Storeria dekayi</i>
Flathead Snake	<i>Tantilla gracilis</i>
Plains Blackhead Snake	<i>Tantilla nigripes</i>
Lined Snake	<i>Tropidoclonian lineatum</i>
Copperhead	<i>Agkistrodon contortrix</i>
Massasauga	<i>Sistrurus catenatus</i>
Eastern box turtle	<i>Terrapene carolina</i>
BIRDS	
Turkey vulture	<i>Cathartes aura</i>
Red-tailed hawk	<i>Buteo jamaicensis</i>
<i>Rough-legged hawk</i>	<i>Buteo lagopus</i>
Bald eagle	<i>Haliaeetus leucocephalus</i>
<i>Northern harrier</i>	<i>Circus cyaneus</i>
Merlin	<i>Falco columbarius</i>
American kestrel	<i>F. sparverius</i>
Northern bobwhite	<i>Colinus virginianus</i>
Ring-necked pheasant	<i>Phasianus colchicus</i>
Wild Turkey	<i>Meleagris gallopavo</i>
Killdeer	<i>Charadrius vociferus</i>
Upland sandpiper	<i>Bartramia longicauda</i>
Rock dove	<i>Columba livia</i>
Mourning dove	<i>Zenaida macroura</i>
Yellow-billed cuckoo	<i>Coccyzus americanus</i>
Black-billed cuckoo	<i>C. erythrophthalmus</i>
Great horned owl	<i>Bubo virginianus</i>

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Barred owl	<i>Strix varia</i>
Whip-poor-will	<i>Caprimulgus vociferus</i>
Common nighthawk	<i>Chordeiles minor</i>
Chimney swift	<i>Chaetura pelagica</i>
Ruby-throated Hummingbird	<i>Archilochus colubris</i>
Belted kingfisher	<i>Ceryle alcyon</i>
Northern flicker	<i>Colaptes auratus</i>
Pileated woodpecker	<i>Oryzocopus pileatus</i>
Red-headed woodpecker	<i>Melanerpes eurthrocephalus</i>
Red-bellied woodpecker	<i>M. carolinus</i>
Downy woodpecker	<i>Picoides pubescens</i>
Hairy woodpecker	<i>P. villosus</i>
Eastern kingbird	<i>Tyrannus tyrannus</i>
Western kingbird	<i>T. verticalis</i>
Scissor-tailed Flycatcher	<i>T. forficatus</i>
Great crested flycatcher	<i>Myiarchus crinitus</i>
Eastern phoebe	<i>Sayornis phoebe</i>
Yellow-bellied flycatcher	<i>Empidonax flaviventris</i>
Acadian flycatcher	<i>E. virescens</i>
Least flycatcher	<i>E. minimus</i>
Eastern wood-peewee	<i>Contopus virens</i>
Bank swallow	<i>Riparia riparia</i>
Northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>
Barn swallow	<i>Hirundo rustica</i>
Cliff swallow	<i>H. pyrrhonota</i>
Loggerhead shrike	<i>Lanius ludovicianus</i>
Cedar waxwing	<i>Bombycilla cedrorum</i>
House wren	<i>Troglodytes aedon</i>
Winter wren	<i>T. troglodytes</i>
Bewick's wren	<i>Thryomanes bewickii</i>
Carolina wren	<i>T. ludovicianus</i>
Sedge wren	<i>Cistothorus platensis</i>
Northern mockingbird	<i>Mimus polyglottos</i>
Gray catbird	<i>Dumetella carolinensis</i>
Brown thrasher	<i>Toxostoma rufum</i>
Black-capped chickadee	<i>Parus atricapillus</i>
Tufted titmouse	<i>P. bicolor</i>
White-breasted nuthatch	<i>Sitta carolinensis</i>
Brown creeper	<i>Certhia americana</i>
Prothonotary warbler	<i>Protonotaria citrea</i>
Tennessee warbler	<i>Vermivora peregrina</i>
Northern parula	<i>Parula americana</i>
Yellow warbler	<i>Dendroica petechia</i>
Palm warbler	<i>D. palmarum</i>
Mourning warbler	<i>Opormis philadelphia</i>
Common yellowthroat	<i>Geothlypis trichas</i>
Yellow-breasted chat	<i>Icteria virens</i>
American redstart	<i>Setophaga ruticilla</i>
White-eyed vireo	<i>Vireo griseus</i>

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Yellow-throated Vireo	<i>V. flavifrons</i>
Red-eyed vireo	<i>V. olivaceus</i>
Warbling vireo	<i>V. gilvus</i>
Eastern meadowlark	<i>Stumella magna</i>
Western meadowlark	<i>S. neglecta</i>
Red-winged blackbird	<i>Agelaius phoeniceus</i>
Orchard oriole	<i>Icterus spurius</i>
Baltimore oriole	<i>I. galbula</i>
Brewer's blackbird	<i>Euphagus cyanocephalus</i>
Common grackle	<i>Quiscalus quiscula</i>
Great-tailed grackle	<i>Q. mexicanus</i>
Brown-headed cowbird	<i>Molothrus ater</i>
Northern cardinal	<i>Cardinalis cardinalis</i>
Rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>
Blue grosbeak	<i>Giuraca caerulea</i>
Indigo bunting	<i>Passerina cyanea</i>
Dickcissel	<i>Spizza americana</i>
Purple finch	<i>Carpodacus purpureus</i>
House finch	<i>C. mexicanus</i>
American goldfinch	<i>Carduelis tristis</i>
Rufous-sided towhee	<i>Pipilo erythrophthalmus</i>
Savannah sparrow	<i>Passerculus sandwichensis</i>
Grasshopper sparrow	<i>Ammodramus savanarum</i>
Vesper sparrow	<i>Poocetes gramineus</i>
Lark sparrow	<i>Chondestes grammacus</i>
Dark-eyed junco	<i>Junco hyemalis</i>
American tree sparrow	<i>Spizella arborea</i>
Chipping sparrow	<i>S. passerina</i>
Field sparrow	<i>S. pusilla</i>
Harris' sparrow	<i>Zonotrichia querula</i>
White-crowned sparrow	<i>Z. leucophrys</i>
White-throated sparrow	<i>Z. albicollis</i>
Fox Sparrow	<i>Passerella iliaca</i>
Song sparrow	<i>Melospiza melodia</i>
House sparrow	<i>Passer domesticus</i>
European starling	<i>Stumus vulgaris</i>
Blue jay	<i>Cyanocitta cristata</i>
American crow	<i>Corvus brachyrhynchos</i>
American robin	<i>Turdus migratorius</i>
Swainson's thrush	<i>Catharus ustulatus</i>
Eastern bluebird	<i>Sialia sialis</i>
Townsend's solitaire	<i>Myadestes townsendii</i>
Blue-gray gnatcatcher	<i>Polioptila caerulea</i>
Summer tanager	<i>Piranga rubra</i>
Horned lark	<i>Eremophila alpestris</i>
MAMMALS	
Big brown bat	<i>Eptesicus fuscus</i>
Hoary bat	<i>Lasiurus cinereus</i>

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Coyote	<i>Canis latrans</i>
Red fox	<i>Vulpes vulpes</i>
Bobcat	<i>Lynx rufus</i>
Striped skunk	<i>Mephitis mephitis</i>
Long-tailed weasel	<i>Mustela frenata</i>
Least weasel	<i>M. nivalis</i>
Mink	<i>M. vison</i>
American badger	<i>Taxidea taxus</i>
Raccoon	<i>Procyon lotor</i>
White-tailed deer	<i>Odocoileus virginianus</i>
Woodchuck	<i>Marmota monax</i>
Thirteen-lined ground squirrel	<i>Spermophilus tridecemlineatus</i>
Fox squirrel	<i>Sciurus niger</i>
Plains pocket gopher	<i>Geomys bursarius</i>
Hispid pocket mouse	<i>Chaetodipus hispidus</i>
Meadow jumping mouse	<i>Zapus hudsonius</i>
House mouse	<i>Mus musculus; introduced</i>
Prairie vole	<i>Microtus ochrogaster</i>
Woodland vole	<i>Microtus pinetorum</i>
Eastern woodrat	<i>Neotoma floridana</i>
Deer mouse	<i>Peromyscus maniculatus</i>
White-footed mouse	<i>Peromyscus leucopus</i>
Western harvest mouse	<i>Reithrodontomys megalotis</i>
Plains harvest mouse	<i>Reithrodontomys montanus</i>
Hispid cotton rat	<i>Sigmodon hispidus</i>
Virginia opossum	<i>Didelphis virginiana</i>
Elliot's short-tailed shrew	<i>Blarina hylophaga</i>
Least shrew	<i>Cryptotis parva</i>
Eastern mole	<i>Scalopus aquaticus</i>

POSSIBLE SPECIES IN ALTERNATIVE 2 (RIPARIAN/WET HABITATS)

Plainbelly water snake	<i>Nerodia erythogaster</i>
Diamondback water snake	<i>N. rhombifer</i>
Northern water snake	<i>N. sipedon</i>
Graham's crayfish snake	<i>Regina grahamii</i>
Western ribbon snake	<i>Thamnophis proximus</i>
Common garter snake	<i>T. sirtalis</i>
Snapping turtle	<i>Chelydra serpentina</i>
Painted Turtle	<i>Chrysemys picta</i>
Ouchita map turtle	<i>Graptemys ouchitenses</i>
River cooter	<i>Pseudemys concinna</i>
Slider	<i>Trachemys scripta</i>
American beaver	<i>Castor canadensis</i>
Wood duck	<i>Aix sponsa</i>

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Appendix 15



Planning Department
201 South Pearl Street / Suite 201
Paola, Kansas 66071
913-294-9553 • 913-294-9545 (fax)
www.miamicountyks.org

August 16, 2010

Laurie Yasui
Kansas Department of Wildlife and Parks
512 SE 25th Avenue
Pratt, KS 67124

RE: Proposed Range at Hillsdale State Park

Dear Ms. Yasui:

This letter is being written to retract my statement for the requirement of a conditional use permit for the operation of a shooting range as outlined in my previous letter to you dated July 16, 2010. After speaking with county counsel, it was determined that the Hillsdale Lake area owned and operated by the USACE is in essence, a recreational area and as such, no conditional use permits have been required by the county for uses that are in keeping with the recreational theme of the area.

Thank you again for checking on the need for any permits in this area and for double-checking to ensure the proposal is not located in the floodplain. It has been verified that the proposal is not located in a flood hazard area and there therefore, a Floodplain Development Permit is not required by the county.

Again, thank you for your cooperation. If I can be of further assistance, please feel free to write or call.

Respectfully,

Teresa Reeves
Interim Planning Director

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Appendix 16



Laurie Yasui <lauriey444@gmail.com>

flood map

messages

Samuelson, Steve <Steve.Samuelson@kda.ks.gov>

Tue, Jul 6, 2010 at 10:06 A

: "lauriey444@gmail.com" <lauriey444@gmail.com>

: "treeves@miamicountyks.org" <treeves@miamicountyks.org>, "Byrd, Ed" <Ed.Byrd@kda.ks.gov>

Dear Laurie,

There is a FIRMette attached to this email. That is a small version of a flood map. I made this map at the FEMA website: www.msc.fema.gov. If you have more projects like this I can teach you how to use that website. If your project will be in the blue shaded area it will require a permit from Miami County. If you bring fill dirt to make an earthen berm for a back stop that may require a permit from Division of Water Resources. I think the fee is not very large for either permit.

Contact Theresa Reeves with Miami County to inquire about a permit from her office: treeves@miamicountyks.org

Contact Ed Byrd at Division of Water Resources (same building I am in) to inquire if a permit is needed at all from DWR: ed.byrd@kda.ks.gov

If the project is not in the blue areas there will not be any permits required. Permits are not required where the black dots are that do not have blue shading. Only the Zone A areas require permits.

Sincerely, Steve

Steve Samuelson, CFM

NFIP Specialist

Kansas Department of Agriculture

Division of Water Resources

109 SW 9th Street, Second floor

Topeka, KS 66612-1283

ph. (785) 296-4622

fax (785) 296-4835

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Appendix 17

July 23, 2010

KANSAS DEPT OF WILDLIFE & PARKS
LAURIE YASUI
512 SE 25TH AVE
PRATT KS 67124

RE: Shooting Range (Hillsdale State Park)
Non-Jurisdictional Project
Floodplain Fill
Miami County
Bull Creek
WSN: LMI-0057

Dear Ms. Yasui:

In response to your phone call earlier today, I will go into more detail to my July 14th letter. I supplied the location of this site as being in the floodplain of Bull Creek at a location in the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 17, Township 16 South, Range 23 East, Miami County, Kansas. The limits of this site do indeed go beyond this area. I only mentioned the area near the floodplain. The legals to the limits of the site you provided are in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$, W $\frac{1}{2}$ of the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$, N $\frac{1}{2}$ of the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$, and in the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 17, all in Township 16 South, Range 23 East.

We have concluded that this project is not in our jurisdiction by K.S.A. 82a-301 to 305a or 24-126, by observing that this site lies outside of the 100-yr. floodplain and the nearby dam is federally owned. Since you are below the Corps of Engineer's dam, it would be beneficial to discuss your proposal to them. I provided you the contact information to Antonella Cerchi of (816) 389-3660 or antonella.i.cerchi@usace.army.mil. In the end, a state permit will not be required from this agency unless special public interest issues are identified.

This project does not in any way relieve the project sponsor from complying with any other local, state, or federal requirements which may be applicable. If you have any questions, please feel free to contact me at (785) 296-0501 or chris.warren@kda.ks.gov.

Sincerely,

Chris R. Warren

Chris R. Warren
Water Structures Engineer

Enclosure

pc: District Engineer, Kansas City
Corps of Engineers
Topeka Field Office
Teresa Reeves
Miami County FPA

Appendix 18

HRTF SPECIAL USE AGREEMENT

This agreement is made and entered into this _____ day of _____, 2010, by and between the Hillsdale Range & Training Facility of east Central Kansas (referred to as the "Club") and the State of Kansas by and through the Department of Wildlife and Parks (referred to as the "Department") regarding the Hillsdale Range and Training Facility (referred to as the "HR&TF").

Whereas, the Department is lessee of certain land in Miami County, Kansas owned by the U.S. Army Corps of Engineers, said lease to expire _____; and

Whereas, the Department operates and regulates Hillsdale State Park on that leased land, for the benefit of public outdoor recreation and the wise management and use of the state's natural resources; and

Whereas, the Department is authorized to assist and cooperate with certain citizen-support organizations and to allow use of department-controlled property by such organizations under such conditions as the Department may prescribe, and in pursuit of the goals, objectives, and purposes of the Department; and

Whereas, the Club is a non-profit corporation duly organized and existing under and by virtue of the laws of the State of Kansas, and is exempt from the payment of federal income taxes pursuant to section 501(c)(3) of the Federal Internal Revenue Code, and otherwise meet the qualifications of a citizen-support group under K.S.A. 32-832; and

Whereas, the Club wishes to use a certain area within Hillsdale State Park for public outdoor recreation deemed by the Department not to be in conflict with the goals, objectives, and purposes of the Department, such areas to be designated in Exhibit A, attached and made part of the this Special Use Agreement; and

Whereas, the Club, through separate Agreement with the Department, may obtain funds to assist in the development of facilities for that area within Hillsdale State Park;

Now, therefore, in consideration of the premises and of the mutual covenants set forth below, the Parties agree as follows:

1. Term

The term of this contract shall be for ten years from execution of this Agreement, beginning on the date first written above. At the end of the contract term, the contract may be renewed for a specified term if agreed to in writing by both parties.

2. Notices

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All correspondence and notices to be given pursuant to this contract shall be addressed as follows:

Hillsdale Range & Training Facility(Club)	Hillsdale State Park(Department)
PO Box 116	Park Manager
Hillsdale, KS 66036	26001 W. 255 th St.
	Paola, KS 66071

or as may from time to time otherwise be directed by the parties. Notice shall be deemed to have been duly given if, and when enclosed in a properly sealed envelope, or wrapper, addressed as aforesaid, and deposited, postage prepaid, in a post office regularly maintained by the United State Postal Service.

3. Authorized Representatives

Except as otherwise specifically provided any reference here in to the Department shall include its duly authorized representatives. Any reference to the Club shall include assignees, transferees, successors and their duly authorized representatives.

4. Supervision by the Department

The use and occupation of the premises shall be subject to the Operations Plan developed pursuant to Paragraph 8. When not addressed by the Operations Plan, use and occupation shall remain subject to the general supervision and approval of the Department.

5. Applicable Laws and Regulations

The Club shall comply with all applicable federal laws and regulations and with all applicable laws, ordinances and regulations of the state, county and municipality, wherein the premises are located, including but not limited to, those regarding construction, health, safety, food service, water supply, sanitation, use of pesticides, and licenses or permits to do business.

6. Condition of Premises

The Club acknowledges that it has inspected the premises, knows its conditions, and understands that the same is leased without any representations or warranties whatsoever and without obligation on the part of the Department to make any alterations, repairs or additions thereto.

7. Construction Plan

A. The Department and the Club shall jointly develop a Construction Plan for the premises. While the parties shall endeavor to develop a mutually acceptable plan, all of the provisions shall be approved by the Department and the Corps of Engineers. This plan shall indicate the types and general locations of all facilities to be developed on the premises. The plan can be amended by mutual agreement at any time during the Agreement term.

B. The Club, at its own expense and in compliance with the Construction Plan approved by the Department, may undertake construction, modification, or improvements on the premises. Title to improvements constructed or placed on the premises by the Club shall remain

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vested in the Department, subject to Paragraph 6 -- Condition of Premises, and Paragraph 18 -- Restoration, and shall be maintained by the Club to the satisfaction of the Department.

8. Operations Plan

The Department and the Club shall jointly develop an Operations Plan for the premises. While the parties shall endeavor to develop a mutually acceptable plan, all of the provisions shall be approved by the Department and the Corps of Engineers. The Club shall construct, operate and maintain the premises for park or recreation purposes only and in accordance with the Operations Plan.

9. Rental

The Club shall be responsible for maintenance of the premises to the satisfaction of the Department, including mowing and trash removal which would otherwise be performed by the Department, and as may be further defined in the Operations Plan. Successful performance of these obligations shall relieve the Club from any obligation of rental payments to the Department for use of the premises pursuant to this Special Use Agreement.

10. Park Fees

Valid park motor vehicle permits shall be required of all vehicles entering Hillsdale State Park to participate or observe the Club events, activities, or projects. The Club agrees to include notice of applicable State Parks fees where appropriate, as described in the Operations Plan.

11. Availability of the Premises

The Club agrees to make the premises available for public or other non-profit organizational use as described in the Operations Plan.

12. Transfers and Assignments

A. Without prior written approval of the Department, the Club shall neither transfer nor assign their rights under this agreement nor sublet the premises or any part thereof, nor grant any interest, privilege or license whatsoever in connection with this agreement. Failure to comply with this condition shall constitute a noncompliance for which the special use agreement may be revoked immediately by the Department.

B. The Club will not sponsor or participate in time share ownership of any structure, facilities, accommodations, or personal property on the premises. The Club will not subdivide nor develop the premises into private residential development.

13. Protection of Property

The Club shall be responsible for any damage that may be caused to property of the United States or under lease to the Department by the activities of the Club under this contract, and shall exercise due diligence in the protection of all property located on the premises against

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fire or damage from any and all causes. Any property of the United States or under lease to the Department damaged or destroyed by the Club incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the Club to a condition satisfactory to the Department, or reimbursement shall be made by the Club in an amount necessary to restore or replace the property to a condition satisfactory to the Department.

14. Right to Enter and Flood

The right is reserved to the United States, its officers, agents and employees, as well as the Department, its officers, agents and employees to enter upon the premises at any time and for any purpose necessary or convenient in connection with government purposes, to make inspections, to remove timber or other material, except property of the Club, to flood the premises, to manipulate the level of the lake or pool in any manner whatsoever and/or to make any other use of the lands as may be necessary in connections with government purposes and the Club shall have no claim for damages on account thereof against the United States or any officer, agent or employee thereof or the Department or any officer, agent or employee thereof.

15. Insurance

A. At the commencement of this contract, the Club shall obtain liability insurance from a reputable insurance company or companies. The insurance shall provide an amount not less than that which is prudent, reasonable and consistent with sound business practices or a minimum combined single limit in the amount of \$1,000,000.00, whichever is greater, for any number of persons or claims arising from any one incident with respect to bodily injuries or death resulting there from property damage, or both, suffered or alleged to have been suffered by any person or persons resulting from the operations of the Club under the terms of this contract. The Club shall require its insurance company to furnish to the Department a copy of the policy or policies, or if acceptable to the Department, certificates of insurance evidencing the purchase of such insurance. The Department shall have the right to review and revise the amount of minimum liability insurance required.

B. The insurance policy or policies shall be of comprehensive form of contract and shall specifically provide protection appropriate for the types of facilities, services and activities involved. The Club shall require that the insurance company give the Department thirty (30) days written notice of any cancellation or change in such insurance. The Department may require closure of any or all of the premises during any period for which the Club does not have the required insurance coverage.

16. Indemnity

Neither the United States nor the Department shall be responsible for damages to property or injuries to persons which may arise from or be incident to the exercise of the privileges herein granted, or for damages to the property of the Club, or for damages to the property or injuries to the person of the Club officers, agents, or employees or others who maybe on the premises at

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their invitation or of anyone of them, and the Club shall hold the United States and the Department harmless from any and all such claims not including damages due to the fault or negligence the United States, the Department, or its contractors.

17. Restoration

On or before the expiration of this contract or its termination by the Club, the Club shall vacate the premises, remove the property of the Club and restore the premises to a condition satisfactory to the Department. If, however, this contract is canceled by the Department, the Club shall vacate the premises to the aforesaid condition within such time as the Department may designate. In either event, if the Club shall fail or neglect to remove said property and restore the premises, then, at the option of the Department, said property shall either become the property of the Department without compensation therefore, or the Department may cause the property to be removed and no claim for damages against the Department or its officers or its agents shall be created by or made on account of such removal and restoration work. The Club shall also pay the Department on demand any sum which may be expended by the Department after the expiration, revocation, or termination of this contract in restoring the premises.

18. Non-Discrimination

The Club shall not discriminate against any person or persons or exclude them from participation in the Club operations, programs or activities conducted on the premises, because of race, color, religion, national origin or ancestry, sex, age, handicap, disability, sexual orientation, gender identity, military or veteran status or political affiliation. The Club will comply with the Americans with Disabilities Act and attendant Americans with Disabilities Act Accessibility Guidelines (ADAAG) published by the Architectural and Transportation Barriers Compliance Board.

19. Subject to Easements

This contract is subject to all existing easements, or those subsequently granted, as well as established access routes for roadways and utilities located, or to be located, on the premises, provided that the proposed grant of any new easement or route will be coordinated with the Club, and easements will not be granted which will, in the opinion of the Department, interfere with the use of the premises by the Club.

20. Compliance, Closure, Revocation, and Relinquishment

A. The Club is charged at all times with full knowledge of all the limitations and requirements of this agreement, and the necessity for correction of deficiencies, and with compliance with reasonable requests by the Department. This agreement may be revoked in the event the Club violates any of its terms and conditions and continues and persists in such non-compliance. The Club will be notified of any non-compliance, which notice shall be in writing or shall be confirmed in writing, giving a period of time in which to correct the non-compliance. Failure to satisfactorily correct any substantial or persistent non-compliance within the specified

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time is grounds for closure of all or part of the premises, temporary suspension of operation, or cancellation of the agreement, after notice in writing of such intent. Decisions by the Department concerning future requests by the Club to extend the agreement, expand the premises, modify authorized activities, or assign rights under the agreement shall reflect the Club past performance and compliance with the agreement terms.

B. This agreement may be relinquished by the Club by giving thirty (30) days prior written notice to the Department in the manner prescribed in Paragraph 2 -- Notices.

21. Health and Safety

A. The Club shall keep the premises in good order and in a clean, sanitary and safe condition by and at the expense of the Club.

B. In addition to the right of revocation for non-compliance previously stated, the Department, upon discovery of any hazardous condition on the premises that present an immediate threat to health or danger to life or property, will so notify the Club and will require that the affected part or all of the premises be closed until such condition is corrected and the danger eliminated. If the condition is not corrected the Department will have the option to (1) correct the hazardous condition and collect cost of repairs from the Club or (2) cancel the agreement. The Club shall have no claim for damages against the Department, or any officer, agent or employee thereof on account of action pursuant to this condition.

22. Prohibited Uses

The Club shall not permit gambling on the premises or install or operate, or permit to be installed or operated thereon, any illegal business or purpose. There shall not be conducted on or permitted on the premises any activity which would constitute a nuisance. As an exception, some games of chance, such as raffles, games and sporting events, may be conducted by the Club if permissible by state and local law. Any request to conduct a game of chance must be submitted in writing to the Department.

23. Natural Resources

The Club shall cut no timber, conduct no mining operations, remove no sand, gravel, or kindred substances from the ground, commit no waste of any kind, nor in any manner substantially change the contour or condition of the premises, except as may be authorized under and pursuant to Paragraph 7 -- Construction Plan and Paragraph 8 -- Operations Plan.

24. Historic Preservation

The Club shall not remove or disturb, or cause or permit to be removed or disturbed, any historical, archaeological, architectural or other cultural artifacts, relics, remains or objects of antiquity. In the event such items are discovered on the premises, the Club shall immediately notify the Department and protect the site and the material from further disturbances until the

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Department gives clearances to proceed.

25. Soil and Water Conservation

The Club shall maintain, in a manner satisfactory to the Department, all soil and water conservation structures that may be in existence upon said premises at the beginning of or that may be constructed by the Club during the term of this agreement, and the Club shall take appropriate measures to prevent or control soil erosion within the premises. Any soil erosion occurring outside the premises resulting from the activities of the Club shall be corrected by the Club as directed by the Department.

26. Transient Use

Camping, including transient trailers or recreational vehicles, is prohibited. Occupying any lands, buildings, vessels or other facilities within the premises for the purpose of maintaining a full or part-time residence is prohibited, except for employees residing on the premises for security purposes if authorized by the Department.

27. Modifications

This Special Use Agreement, including any exhibits or attachments explicitly referred to by this Special Use Agreement, contains the entire agreement between the parties hereto concerning the use of the premises of Hillsdale State Park in question. No modification of this agreement, or waiver, or consent hereunder shall be valid unless the same be in writing, signed by the parties to be bound or by a duly authorized representative.

28. Disclaimer

This agreement is effective only insofar as the rights of the Department in the premises are concerned; and the Club shall obtain any permit or license which may be required by Federal, state, or local statute in connection with the use of the premises. It is understood that the execution of this contract does not preclude the necessity of obtaining any Department of the Army permit for activities which involve the discharge of dredge or fill material or placement of fixed structures in the waters of the United States, pursuant to the provisions of Section 10 of the Rivers and Harbors Act of 3 March 1899 (33 U.S.C. 403), and Section 404 of the Clean Waters Act (33 U.S.C. 1344).

29. Additional Contractual Provisions Required by State Law

The Parties hereby incorporate the provisions found in Contractual Provisions Attachment (form DA-146a), which is attached hereto, as a part of this agreement between the Parties.

The Parties have caused this contract to be executed by their duly authorized representatives as of the day first written above.

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SPECIAL USE AGREEMENT
HILLSDALE STATE PARK
HILLSDALE RANGE AND TRAINING FACILITY OF EAST CENTRAL KANSAS
Page 8 of 8

State of Kansas
Department of Wildlife and Parks

By: _____
Jerold Hover Director Parks Division

Hillsdale Range & Training Facility of East Central Kansas

By: *Joe Heinerikson* Title: President 5-24-2010

Printed Name: Joe Heinerikson

Reviewed by: _____ Date: _____
U.S. Army Corps of Engineers

04-16-2010

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Appendix 19

KANSAS

KSR&C No. 10-07-232

Kansas Historical Society
Jennie Chinn, *Executive Director*

MARK PARKINSON, GOVERNOR

July 29, 2010

Laurie Yasui
Kansas Department of Wildlife and Parks
Parks Division
512 SE 25th Ave
Pratt KS 67124

RE: Shooting Range
Hillsdale State Park
Miami County

Dear Ms. Yasui:

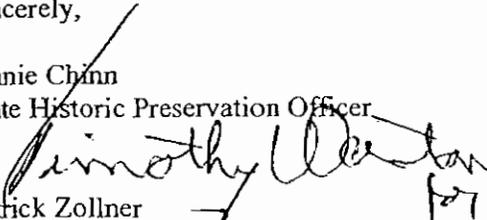
The Kansas State Historic Preservation Office has reviewed its cultural resources files for the area of the above referenced project in accordance with 36 CFR 800. The project as proposed should have no effect on properties listed in the National Register of Historic Places or otherwise identified in our files. This office has no objection to implementation of the project.

Any changes to the project area that include additional ground disturbing activities will need to be reviewed by this office prior to beginning construction. If construction work uncovers buried archaeological materials, work should cease in the area of the discovery and this office should be notified immediately.

This information is provided at your request to assist you in identifying historic properties, as specified in 36 CFR 800 for Section 106 consultation procedures. If you have questions or need additional information regarding these comments, please contact Tim Weston 785-272-8681 (ex. 214). Please refer to the Kansas Review & Compliance number (KSR&C#) above on all future correspondence relating to this project.

Sincerely,

Jennie Chinn
State Historic Preservation Officer


Patrick Zollner
Deputy State Historic Preservation Officer

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Appendix 20

SUMMARY OF PUBLIC MEETING
FOR
HILLSDALE RANGE & TRAINING FACILITY

Date 05-08-08

In the April 25th edition of the Miami County Republic there was a good article covering the upcoming public meeting about the range and improvements at Hillsdale Point. On May 2nd there was a second article covering the meeting. Both articles covered the public comment forms and where to get and send them.

We had approximately 40 people attend with no negative comments at the meeting that went from 7:00 PM to 8:30 PM. Several people had questions, what type of shooting would be allowed (pistol, rifle, shot gun). When would the range be open to the public (dates and times)? The baffle system was discussed and that the bullet impact area was at the base of an 80 foot hill. We had several overheads of the range layout and baffles and surrounding area. One question was what the charge would be to 4-H, Boy Scouts and other non-profit groups; the HR&TF would have a very low rate for those groups. Another question was if the range would be used for Action type matches, move and shoot), no all shooting must be from the firing line and no match would close the range on public shooting days.

The HR&TF board members were introduced with only one member being out of town. The funding of the range was covered with the understanding that the range would be built as funds are available.

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Personal Contacts

ON May 2, 2008

I met with Carl Courtney, President of the Saddle Ridge Riders Club. After viewing the power point slide show and drawings of the project Carl thought the project would not be a conflict or interruption in the trail riding activities of the area and commented this would be a popular facility. Carl left the office with about a dozen blank comment sheets. I indicated he or anyone with questions could give Virgil or me a call. Carl and I agreed to give the park staff time at the next monthly club meeting for a full presentation before the club membership, Hillsdale Township Hall, 5/20/2008, 7:00PM.

Gary F. Lucas

Personal Contacts

On May 5, 2008

I spoke to J.R. Kendall, President of the Eastern Kansas Arabian Horse Association, for approximately an hour over the phone. J.R. had heard a significant portion of trail would be lost with a proposed project. I discussed the information and explained the project for J.R. He had no major objections to the project and felt any negative aspects would be minor or no significant impact. I sent him by mail 8 blank comment sheets and indicated Virgil or I would be available for any additional questions. Gary Lucas.

Personal Contacts

On May 6, 2008

I spoke with Mary McDivette, Saddle Ridge Riders Club member & Eastern Kansas Arabian Horse Association member; she was concerned about losing trail areas. I explained the project and indicated a full presentation would be performed at the Saddle Ridge Riders Club monthly meeting. Mary had no objections with the project and indicated she would see staff at the meeting.

Gary F. Lucas

Personal Contacts

On May 7, 2008

I met with Brad Goodarte, adjoining property owner and sport shooter. Brad indicated the skeet/trap ranges were too limited in scope; he wanted to see a larger plan that would accommodate 12+ ranges on a site where targets are silhouetted against a blue sky background. Brad had no other problems with the project as proposed. Brad did offer to help acquire National Skeet Shooting Organization range building grants, \$1,000.00 per year per range,

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for the project as well as use Goodarte Flatwork Concrete Co. equipment and labor to install skeet/trap walkways. Brad stated he would get ready mixed concrete donated at a reduced cost to do the project. Gary F. Lucas.

PERSONAL CONTACTS
ON MAY 17TH 2008

On the 17th of May 2008 I tried to contact home owners on Harmony rd both south and north of 255th st. I made contact with 6 home owners and talked to them about the range going in below the dam. I showed them the range plans and left comment forms for them to mail in. Two of the six did not want a range in the area but only one wrote in, the other four thought the range was a good thing but have not responded in writing at this time. The people contacted live in the homes closest to the range area. I stopped at four other homes in the area but was unable to find anyone at home.

Virgil Corbin.

Saddle Ridge Riders Club
Monthly Meeting 05/20/08

On 5/20/08 I, Kevin Kasper and Jim Manning met with 19 members of the Saddle Ridge Riders club at the Marysville Township Hall in Hillsdale. Kevin told the club about the long awaited shower building going in the Saddle Ridge area and thanked them for their work on the trails. I told them where the range would be and passed around the aerial photos showing the range layout. I also passed around photos of the baffle system and told them how they were constructed. The main topic of discussion was the moving of part of the trail. I showed them on the large 2x3 ft. aerial photo the current trail and where it would be cut and moved to the south. The club asked that we work with the person in charge of the trails layout when moving trail. I told them that we would absolutely work with them in moving the trail. They asked who would pay for the relocation I told them that the HR&TF would work with them and the park on the move. We talked about flags at each end of the range being up when there is firing at the range. The meeting went very well and the Officers of the club told the other members that the club needed to work with the Park on the project. The meeting was very good and ended with everyone wanting to work together.

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Virgil Corbin

MEETING WITH NOON ROTARY CLUB OF PAOLA KS.

On 5/29/08 Gary and I met with 21 people at the noon meeting of the Paola Rotary Club. We talked about the range and improvements at Hillsdale Point; we also left them some comment forms. Being a group of business people the main questions they had were, how many people will use the range, how will the improvements be funded and is there any range like it in the area.

Virgil Corbin.

June 12th Public Meeting in Paola

Gary opened the meeting with an overview of the range project. We had nine people sign in. Three of the people live on the west side of the lake in the area of 263rd and Waverly rd. As with the other meetings the people wanted to know if it would be open to the public and how often. They also asked about the lead management and sound level around the area. I told them how the sound levels checks were done and the summary report. I went over the Lead Management program with them also. In talking with the people that live on the west side of the lake I found out that they ride their horses on Park horse trails that are close to a private skeet range used by the land owner and his friends only. We spent a lot of time talking with the three people and told them that because the shooting would be so far away and pointed in the opposite direction that they may not hear it on that side of the lake. We asked if anyone had any other questions or concerns and that we wanted to hear from them and work with any concerns that had. No one said they did not want the range and all questions were covered.

Virgil Corbin

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

Great Idea

Well managed & thought out!

Gary Smith

KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

Your presentation was very well presented
+ thought out. Good luck in finalizing
the whole process. It was apparent that
you did your research. I will attend
the next session in support.

Laura N. Smith
23776 Clare Rd
Paoli, KS 66071
913-783-4881

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

GREAT - THIS HAS TO BE ONE OF THE BEST
PROPOSALS FOR MAHAR COUNTY IN RECENT
TIMES. I'M LOOKING FORWARD TO SHOOTING
AT THE NEW RANGE.

J. C. Dozier Jr

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

This is the Best idea for the Park. We have needed and wanted one for a long time. We could use more of these Ranges across KANSAS.

Dean R Largo
Lenexa, KANSAS

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

THE RANGE WILL BE A GREAT ADDITION TO
THE PARK PROPERTY. THE LOCATION IS PERFECT.
THE SAFETY PLAN IS WELL THOUGHT OUT.

THE RANGE WILL BE SAFE EVEN WITHOUT
THE BARRIERS.

I SUPPORT THE RANGE 100%.

DAVID PORTER

NRA CERTIFIED INSTA.
KANSAS HIGHWAY PATROL RANGE MASTER AND
RANGE MANAGER, POLICE RIFESHOTS INSTA.

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

We need a place to reach our kids to shoot safely and responsibly.

Better than having them out shooting at beer cans at some dumps.

Also as urbanization continues to spread it is getting more difficult to find a safe place to shoot.

Ken & Susan
10024 Taylor Dr
Overland Park KS
66212



KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

There is no public shooting range in the southern Johnson, Miami Co. area at present time. It would be very convenient for recreational shooters in this area to have a safe place to shoot.

Richard Evans
Paola, Ks.

KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

Nick Evans, Paola

This area is in desperate need of a place where the public can shoot. With more houses popping up on large tracts of land, it is harder and harder to find a place to shoot. Without ~~the~~ a place to go I fear many people will just decide its not worth the trouble and give up the sport. People would come to the range from all over Southern Johnson, Miami, and several other surrounding counties. This would bring more revenue to the already popular Hillsdale Lake area.



KANSAS

Comment form for Public Shooting Range
Hillsdale State Park 2008

A shooting range would be an excellent idea for those of us who live on this side of the Metro area. There is a real need for this in the area.

Tom Graves

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

I would like to see a public shooting range
for center fire, rimfire & shotgun use managed
by the Game & Fish Department.

Ernie Meadows

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

This area needs a public shooting range. A well-run shooting range encourages safety and the teaching of safety ~~to~~ to new shooters. It will also draw hunters/target shooters who might otherwise be using unsupervised and potentially unsafe places to shoot.

- Joe Medved 6-7-08

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

I think the prospect of the range is an OUTSTANDING one, serving South Kansas City & Miami County. There has long been a need for a range of this type, as Kansas has been losing range money to the Missouri ranges at Parma Woods & Lake City for many, many years. This will also bring revenue into Hillsdale Park, the town of Hillsdale and Miami County in general.

Thank You
Mike Soden
Paola KS 66071

KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

To whom it may concern;

I think it would be a wonderful idea to make a public shooting range at Hillsdale State Park. I believe it would truly be an asset to the park to help support the shooting sports in a well maintained, supervised and professionally executed facility. I think this would help promote firearms safety as well as marksmanship and sportsmanship.

Sincerely,

Michael Newton
22475 W 223rd
Spring Hill, Kansas
66083

KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

HAVING MOVED HERE FROM MISSOURI, WHERE THEY
HAVE LOTS OF PUBLIC SHOOTING RANGES, I AM
MORE THAN PLEASED TO SUPPORT ONE HERE IN KANSAS

Mike Richardson
SPRING HILL, KS

KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

I BRIAN BASORE ENJOY HUNTING AND FISHING. I WOULD
ALSO ENJOY A PUBLIC SHOOTING RANGE.

Brian Basore
Overland Park, KS

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

From Dannistalbott in my opinion the
proposed public shooting range. From the aspect
off a gate and secure place to shoot and
train young people. As opposed to letting
them learn on their own yard there ways.

With the growing population in the north
east Kansas there needs to be a common place
for recreational shooting of all kinds.

Please approve

Hello,

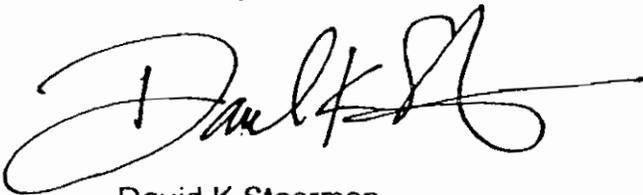
I am writing in support of the proposed outdoor firearms range at Hillsdale Lake. I have been an avid hunter and shooter in the great state of Kansas my entire life. I love to hunt and shoot in our state, but while I have found public hunting areas to be widespread and easy to access, I have likewise noticed that our area has a serious lack of public places to shoot, both for the purposes of sighting in our game rifles, and for general marksmanship practice. Since Kansas now wisely allows qualified, trained individuals the right to carry and defend ourselves, it seems logical that a public place to practice and train should exist.

I find the proposed location of such a range at Hillsdale to be almost perfect – it is within easy driving distance of the KC Metro area, as well as many other communities, while still being remote enough to provide safety and long term viability. By providing a target range at this location, the State of Kansas will ensure that Kansans have a safe place to shoot, and will help to prevent unwanted target shooting in unsanctioned areas of other facilities. This, to me, is a good idea, and is long overdue.

I know that our heritage of hunting and shooting is valuable to most Kansans, and that parks such as Hillsdale are a vital public asset to our state. It seems to me that adding a range to an already fine public area would not only enhance its usefulness, but the fees and concern generated by such an endeavor would only make the park better.

If this project proceeds, I would be pleased to both donate to the building costs, as well as to join at the proposed annual fee. I know that the financing and building of the range will need considerable support and financing, and I for one, am willing to help. Count me in.

Sincerely,



David K Stoerman

11805 England
Overland Park, KS 66210
913-338-3958

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

THERE ARE NOT ENOUGH AREAS WHERE A PRIVATE CITIZEN CAN GO TO PRACTICE MARKSMANSHIP SAFELY. ESTABLISHING A PUBLIC SHOOTING RANGE IN THE AREA OF HILLSDALE STATE PARK WOULD BENEFIT SPORT SHOOTERS IN MULTIPLE COUNTIES.

H.A. Furbel

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

we would never use it. Also, it would probably cause us to travel to different lake as we're not interested in listening to gun fire when boating, swimming, camping, or fishing.

Would rather see the lake better accommodate the cubscouts annual day camp activities. We currently have to travel to Garnett.

The Modes
25759 W. 249th Terr
Prchal, KS

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KANSAS

Comment form for Public Shooting Range Hillsdale State Park 2008

Here are my concerns regarding the proposed shooting range at Hillsdale State Park.

(1) Noise. This is a compact, multi-use park, visited by 1 million people a year. The noise levels cited at the public hearing meeting, about 50 decibels, may not seem overly loud to the individuals shooting, but that is not the case for people riding bikes, fishing, & camping. 50 decibels may indeed be the level of normal conversation, but who wants to listen to non-stop conversation when you're trying to fish? Most people can't sleep at 45 decibels (see article on noise pollution). The noise studies were done by Virginia in late April, in the winter, without the dampening effects of vegetation, they will be louder. Night training exercises were also discussed at a public hearing meeting. State Park Regulations state that quiet hours are 11 PM - 6 AM, & the proposed range must abide by these regulations.

(2) Lead + copper levels. The EPA has a manual "Best Management Practices for Lead at Outdoor Shooting Ranges". A copy of an information pamphlet is enclosed, along

with several pages that included information about the advisability of using a large hill as part of the bullet entrapment system, especially a hill full of clay & rocks. Clay apparently makes lead reclamation more difficult, rocks increase the chance of bullet ricochet.

Liability. If a bullet does ricochet, this is a heavily used park. Who will bear liability costs? " " "

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Virgil Corbin

From: "Gary B. Robinson" <GBRobinson@basspro.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Monday, May 19, 2008 8:11 AM
Attach: image001.jpg
Subject: Gun Range at Hillsdale.

Guy I think this will be very popular and being a manager of Bass Pro in the hunting department I know we could drive the interest to all of our customers.

We have only 3 shotgun ranges close to Olathe and 1 Rifle range the only pistol range is the bullet hole and we sell huge volumes of firearms annually and we are asked daily where can we use a rifle and pistol range around here.

I am excited to here about this and hope this project will be a success.

Thank You

Gary Robinson
Hunting Manager
Bass Pro Shops
12051 Renner Blvd
Olathe Ks 
66062
913-254-5200 Ext 5211
gbrobinson@basspro.com

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Virgil Corbin

From: "Bell, James D NWK" <James.D.Bell@usace.army.mil>
To: "Hillsdale State Park" <hillsdalesp@wp.state.ks.us>
Sent: Friday, May 09, 2008 7:53 AM
Subject: FW: Shooting Range Proposal

Jim D. Bell
U.S. Army Corps of Engineers
Natural Resource Specialist
Hillsdale/Clinton Lakes
913-783-4366
(c)785-760-2130

-----Original Message-----

From: Austin [mailto:raustin3@kc.rr.com]
Sent: Thursday, May 08, 2008 7:51 PM
To: Hillsdale
Subject: Shooting Range Proposal

To the Operations Manager:

We are very excited about the possibility of a shooting range at Hillsdale Lake. If and when it goes into operation we plan to use it, and would be glad to pay membership fees. My wife and I shoot trap, skeet, and sporting clays, and I enjoy target shooting with rifles and pistols. We reside in southern Johnson County and it would be great to have a range so close.

Bob and Carolyn Austin
16030 Nall
P.O. Box 128
Stilwell, KS 66085

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Virgil Corbin

From: "Darren Hefley" <ddhef@att.net>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Monday, June 09, 2008 8:34 PM
Subject: Hillsdale shooting range

I am writing to voice my support for the proposed public shooting range at Hillsdale Lake. This is something that the sportsman of Kansas need desperately. I shot this past weekend at Parma Woods, yes I had to drive over to Missouri to shoot, I had no other options. Parma Woods is a fantastic public range. we need one at Hillsdale.

Several years ago I lived in SE Missouri and was pleasantly surprised by the public shooting ranges in that state. Kansas needs to catch up. A shooting range at Hillsdale would be a good start.

I will be unable to attend the public meeting in Paola on June 12, could you please read my email or give it to the appropriate person to show my support for the proposed range.

Thank you

Darren Hefley

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ole

6/10/2008

Virgil Corbin

From: "Steve Cowman" <SCowman@mjbtrc.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Friday, May 30, 2008 1:00 PM
Subject: Hillsdale Lake Shooting Range

I am in favor of building a shooting range facility at Hillsdale Lake. I know that the main objections to building this facility will probably fall in the categories of safety and noise. However, I believe that a facility can be constructed in a place and manner as to address both of these concerns.

I grew up in central Kansas and during my youth spend many hours hunting and target shooting. As I grew older I gave up hunting but I still enjoy occasionally doing some target shooting. However, I have found that in the Miami County area there is a real lack of public shooting facilities. If a person wants to target shoot they are forced to either join a private gun club, which can be cost prohibitive, or they must drive some distance to find a public range.

Hillsdale Lake continues to expand the recreational opportunities for the general public including some which are not normally associated with a lake i.e. a radio controlled airplane flying facility and I think a shooting range would fit nicely among these opportunities.

Steve Cowman
Paola, KS

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Virgil Corbin

From: "Bell, James D NWK" <James.D.Bell@usace.army.mil>
To: "Hillsdale State Park" <hillsdalesp@wp.state.ks.us>
Sent: Friday, May 30, 2008 4:20 PM
Subject: FW: Proposed Shooting Range

FYI

Jim D. Bell
U.S. Army Corps of Engineers
Natural Resource Specialist
Hillsdale/Clinton Lakes
913-783-4366
(c)785-760-2130

-----Original Message-----

From: Wilkerson, Mark [mailto:mark.wilkerson@imacorp.com]
Sent: Friday, May 30, 2008 11:20 AM
To: Hillsdale
Subject: Proposed Shooting Range

This is a wonderful idea and I would voice support for the proposed shooting range! I currently travel across the state line to Missouri (Parma Range) to target shoot. Having a range at Hillsdale makes a lot of sense and would be used by my family. We currently enjoy fishing at this beautiful lake so a range would certainly increase our visits to this lake!

Mark Wilkerson

Mark Wilkerson
Senior Vice President
NPN License # 6110730

IMA of Kansas, Inc.
10801 Mastin Blvd., Suite 320
Overland Park, KS 66210-1669
913-982-3661 direct phone
913-982-3495 direct fax
785-640-3424 mobile
913-982-3650 main

1251 Arrowhead Road, Suite C
Topeka, KS 66604-4026
785-640-3424 direct phone
785-231-2680 direct fax
785-232-2202 main

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Virgil Corbin

From: "Lucas, Gary" <garyl@wp.state.ks.us>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Friday, May 30, 2008 1:51 PM
Subject: Fw: Proposed Gun Range

Virgil, Please file this comment with the other comments received. Thank you. Gary F. Lucas.

— Original Message —

From: Anthony Porter
To: Hillsdale State Park
Sent: Thursday, May 29, 2008 4:21 PM
Subject: Proposed Gun Range

I just wanted to comment briefly on the proposed gun range at hillsdale lake.

I am heavily in favor of this proposal, and believe it would be a very popular venture for this area.

I know myself and my family would be among the first in line to purchase memberships.

Thanks for your time.

Anthony J. Porter

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Virgil Corbin

From: "Freelancer 27" <fr33lancer27@gmail.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Monday, May 26, 2008 7:51 AM
Subject: Hillsdale State park shooting range

Dear sir,

I recently heard about the proposed shooting range at Hillsdale State Park and would like to voice my encouragement to the project and state that this is a wonderful idea. I currently drive over an hour to one of two ranges that are available to use in Missouri, Lake city and Parma woods. A range in Kansas will not only promote sport shooting to Kansans, but help keep revenue in the state and county as well.

I look forward to hearing about the new range and the status of it.

Thanks for your time,

Dave Cox

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Virgil Corbin

From: <N11152@aol.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Sunday, May 18, 2008 9:50 PM
Subject: Gun Range

Hi Virgil: My name is George Jacobs, I have been a gun enthusiasts all my life. This shooting range is very exciting news for this area and will draw lots of support from several people . I cant mention how important a good range will draw good shooters and benefit the park.I my self would deeply be interested in supporting and donating time to help this project. Please contact me with any further information concerning this matter. My e-mail address is N11152@aol.com

Thanks George

Wondering what's for Dinner Tonight? Get new twists on family favorites at AOL Food.

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Virgil Corbin

From: "David K Stoerman" <dstoerman@kc.rr.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Sunday, May 18, 2008 11:10 PM
Subject: Proposed Hillsdale range.

Hello,

I am writing in support of the proposed outdoor firearms range at Hillsdale Lake. I have been an avid hunter and shooter in the great state of Kansas my entire life. I love to hunt and shoot in our state, but while I have found public hunting areas to be widespread and easy to access, I have likewise noticed that our area has a serious lack of public places to shoot, both for the purposes of sighting in our game rifles, and for general marksmanship practice. Since Kansas now wisely allows qualified, trained individuals the right to carry and defend ourselves, it seems logical that a public place to practice and train should exist.

I find the proposed location of such a range at Hillsdale to be almost perfect – it is within easy driving distance of the KC Metro area, as well as many other communities, while still being remote enough to provide safety and long term viability. By providing a target range at this location, the State of Kansas will ensure that Kansans have a safe place to shoot, and will help to prevent unwanted target shooting in unsanctioned areas of other facilities. This, to me, is a good idea, and is long overdue.

I know that our heritage of hunting and shooting is valuable to most Kansans, and that parks such as Hillsdale are a vital public asset to our state. It seems to me that adding a range to an already fine public area would not only enhance its usefulness, but the fees and concern generated by such an endeavor would only make the park better.

If this project proceeds, I would be pleased to both donate to the building costs, as well as to join at the proposed annual fee. I know that the financing and building of the range will need considerable support and financing, and I for one, am willing to help. Count me in.

Sincerely,

David K Stoerman
Proud student of Virgil Corbin's Concealed Carry Class - November, 2006

11805 England
Overland Park, KS 66210
913-338-3958
dstoerman@kc.rr.com

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Virgil Corbin

From: "Roger Disrud" <rgdisrud@sbcglobal.net>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Monday, May 19, 2008 8:56 AM
Attach: FW_ Proposed new shooting facility at Hillsdale Lake.eml
Subject: Fw: Proposed new shooting facility at Hillsdale Lake

Virgil - I got this message from one of my friends/neighbor. I fully support your efforts in getting a shooting facility at Hillsdale lake. Every fall when big game season is around the corner, I find myself having a hard time finding a place to sight in my rifles. This would be a great asset for the community.

Roger Disrud
(Olathe)

— Original Message —

From: WHITECROF@aol.com
To: WHITECROF@aol.com
Sent: Sunday, May 18, 2008 7:46 PM
Subject: Proposed new shooting facility at Hillsdale Lake

Wondering what's for Dinner Tonight? Get new twists on family favorites at AOL Food.
(<http://food.aol.com/dinner-tonight?NCID=aolfod00030000000001>)

No virus found in this incoming message.
Checked by AVG.

Version: 7.5.524 / Virus Database: 269.23.20 - Release Date: 5/17/2008 12:00 AM

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Virgil,

I just received the email from Jeff Elliot containing the best news we have heard in a long time. A shooting range at Hillsdale Lake including a 200 yard rifle section as well as pistol and shotgun stations would be the best thing to happen in this area in a long time. There are several of us "shooters" that work at the same company and we wanted to offer our encouragement and say thanks for your efforts so far in regards to the HRTF. I am sure some of us will become members while others may use the range occasionally. This range will enable people to become more proficient in the safe handling of their weapons. Also, what an excellent place to train people taking the concealed carry classes. If there is anything I can do personally to aid in the development or organization of this facility, please let me know. (Remember Jeff, I own a sign company on the side and am an electrician by trade). Thanks again, Virgil.

Paul J. Brink
24850 W. 128th St
Olathe, KS 66061
816-651-3926

Wade Mosbrucker
5149 Swartz
Kansas City, KS 66106

David McSpadden
19190 Sunflower Road
Edgerton, KS 66021

T. Dean Smith
31700 W. 223rd St.
Spring Hill, KS 66083

Jon Miller
14879 Peppermill
Olathe, KS 66062

Harold Oliver
5646 Paseo
Kansas City, MO 64110

Dolly Schulz
16900 S. Four Corners Rd.
Gardner, KS 66030

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Virgil Corbin

From: "Jeff Elliott" <elliottent@kc.rr.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Monday, May 19, 2008 10:36 AM
Subject: Hillsdale Shooting and training area

To whom it may concern:

The idea of a proposed public shooting range at the Hillsdale lake dam is one of the best things to come to this area in long time. I will explain my reasons for this statement. I have been a federally licensed firearm dealer for 15 years now in this area and I watched as firearm ownership has grown by leaps and bounds but places to practice and sharpen shooting skills have diminished over the same time period, with the expanding growth of the KC metro area there just isn't places to take our sons and daughters and go teach them safe and correct gun handling skills. As a firearms dealers one the most commonly asked question I get is "is there anywhere publicly around here I can shoot at?" and I have to tell people no not really, there is a couple of places on the Missouri side but on the Kansas side you must belong to a gun club type range which there is only two of that I am aware of. One is limited to 500 members and the waiting list to join is very long, the other is out of the way, expensive to join and closes when Law Enforcement is using the range. The only other Kansas side public shooting range is The Bullet Hole located in Shawnee, it is a inside range, but it has poor ventilation, dark shooting lanes and limited to pistols and shotguns only, plus most people come away from there with a less then pleasant experience with the staff but even with these negative things the manager tells me that on most weekends there is a 20 to 30 minute to get a shooting lane to use.

One of the reasons I enjoy selling firearms is the people that I meet in my business, they are the best kind of people I know of. Most firearms owners are responsible, friendly and committed to preserving our precious right we have to own firearms and they act accordingly so as not bring negative attention to firearms. I have done business with collectors, bird hunters, big & small game hunters, target shooters, competition shooters and just recreational shooters and they all are some of the best people I know of and this is the caliber of people I know that will welcome and use and support a new public shooting range at Hillsdale.

I am also a Kansas Attorney General certified concealed carry instructor and have taught over 150 students to date. In the material that the KS AG has provide me to teach they, the AG recommends that each CCH permit holder should practice their shooting skills at least once a month with a minimum of a 100 rounds per month. But here lies a problem in that most people have no where to do this recommended practice, a new public range at Hillsdale would go a long way in reducing this problem.

I have no doubt that the people that will be using the proposed range at Hillsdale will be people of the highest respect, most gun owners purchase their firearms new and through a dealer such as myself. Thus allowing themselves to be subject to background check before taking ownership of a firearm, this background check looks at 3 databases, the FBI, NCIC and a state supplied info database. These gun owners cannot have any felony convictions in their past, cannot be on probation, do not use illegal drugs, have not entered the country illegally, are not subject to a court ordered restraining order or other things that would deem a person less then respectable. I have no doubt these people will use, maintain and support a range with the public's best interest.

I have visited the site of the proposed shooting range and think that this area is a great to have a range, it is easily accessible, has a natural back stop and there are no houses that I can see in the area. There should be a minimal amount of noise comments with this lack of surrounding population. The area seems to be big enough and has a natural design that would keep accidental ricochets to a minimum.

In conclusion I would like to say that I wholeheartedly support this idea and again believe this is one the best things that could happen to this area.

Yours truly, Jeff E. Elliott

Jeff Elliott

RECEIVED IN FA MAR 08 2011

Virgil Corbin

From: <BDann1@aol.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Cc: <elliottent@kc.rr.com>
Sent: Saturday, May 17, 2008 11:12 AM
Subject: Hillsdale Lake Shooting Facility

Mr Corbin:

This is to let you know that I ardently support the plans for building a shooting facility at the Hillsdale Lake. Such a facility would provide the community with a much needed, safe area to teach gun safety, maintain proficiency and to promote shooting sports.

Please keep me on your mailing list and let me know if there is anything I can do to support or assist your efforts. Additionally, if the club becomes a reality, I'd definitely like to join.

Respectfully,

Bill Danner

Wondering what's for Dinner Tonight? Get new twists on family favorites at AOL Food.

RECEIVED INFA MAR 08 2011

Virgil Corbin

From: "Frank Martin" <frmartin76@yahoo.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Friday, May 16, 2008 10:02 PM
Subject: Hillsdale Range

Virgil,

I just received an email from Jeff Elliott regarding a range installation near Hillsdale State Park. I must say I was excited to read what he had to say. Living in Gardner, Kansas I have no other option for a range other than to drive over an hour to the Missouri side and visit one of their public ranges. We both know with the cost of gas and supporting another state's facility, has always had me scratching my head why Kansas cannot have something just as nice if not nicer.

In this day of age our young as well as old people have a tendency to do things more indoors than out. With a facility like this, along with the cooperation of others we can introduce young people to outdoor sports and recreation. This range would be the perfect place for important gun education and safety lessons as well as introducing adults to a new outdoor activity.

Virgil I cannot thank you enough for the time and effort in developing this range. If there is anything else you need from me or anything else I can do to help this effort. Do not hesitate to call or email me:

frmartin76@yahoo.com
Cellphone 785-342-4242

Thanks,

Frank R. Martin
Lifetime Kansas Resident

RECEIVED IN FA JUN 03 2011

Virgil Corbin

From: <jharden-kcreator@juno.com>
To: "Corbin, Virgil" <virgilc@wp.state.ks.us>
Sent: Monday, May 19, 2008 11:10 PM
Subject: Hillsdale shooting range

I just received an e-mail soliciting comments re: the possibility of a range being built at Hillsdale lake and here are my thoughts.

The general public will only be allowed to use the range 4 times a month and only on weekends, which will not work for many people, and will cost me \$14.50 to shoot per day. Will there be another charge of \$10 each if I bring along my young grandsons who I am encouraging their interest in shooting. At present I shoot at Parma Woods range run by the Missouri Dept. of Wildlife for a fee of \$3.00 per hour and do not have to pay for the kids or a parking fee. With 86% of the shooting time available for club members I see this as a way to build a range for the Club members and not for the general public and therefore would oppose any State monies being used. I most definitely would support something that would be available to the general public all days and at a better rate than \$14.50 per day. We need something where youngsters and beginning shooters can try out the sport of shooting at a reasonable cost. I am aware that Missouri has a sales tax that goes to their wildlife dept and I would support such a tax in Kansas, .Sincerely,Jim Harden

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RECEIVED IN FA 05/20/2008

September 30, 2010

ADDENDUM TO EVALUATION OF IMPACTS, HILLSDALE SHOOTING RANGE

Contact was made with Eric Staab, P. E. Kansas Department of Health and Environment, Bureau of Water Industrial Program Section, on September 27, 2010. He stated, that after reviewing the facts surrounding the Hillsdale shooting range project, an industrial stormwater permit is not required for this permit. He confirmed my statement that no permits are required for the operation of this range.



Laurie Yasui <lauriey444@gmail.com>

Shooting range at Hillsdale State Park

Laurie Yasui <lauriey444@gmail.com>

Mon, Sep 27, 2010 at 4:23 PM

To: estaab@kdheks.gov

Cc: ross.robins@ksoutdoors.com, garyl <garyl@wp.state.ks.us>

Eric -

I talked to you earlier today to determine if the Kansas Department of Wildlife and Parks (KDWP) needed any permits from your division to construct a shooting range at Hillsdale State Park in Miami County, KS. Its location is in T16S, R23E Section 17. It is below the dam in an old go-back field.

The site will be managed by the Hillsdale Range and Training Facility of West Central Kansas, and they have chosen the following for lead management:

1. The pH level in the shot fall and bullet impact areas of the berms on the rifle and pistol ranges will be checked once a year. Lime will be added to the soil to maintain a pH of 6.5 to 8.5.
2. If deemed necessary, containment ponds will be constructed at the ends of any run-off areas from the range.
3. Records will be kept of the number of clay targets thrown. After approximately 800,000 targets thrown, the shot in the shotfall area will be reclaimed, by a contractor.
4. Records will be kept of the approximate number of rounds fired per firing lane on the rifle and pistol range. After approximately 80,000 rounds have been fired per firing lane, the lead in the berm will be reclaimed.

In addition, a water monitoring station will be placed where the two ditches (one on the west side of the area, and the other that runs on the east side) and tested for lead contamination.

Under your advisement, the range would be classified as a shooting club, category 7997 under the US Department of Labor OSHA Standard Classification System, or might be considered incidental to the State Park classification of 9512, government land management agency, and not considered industrial, nor regulated. It is my understanding that no permits are required for the operation of this range.

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I understand that KDWP will need a Construction Authorization - General Permit for Authorization to Discharge Stormwater Runoff from Construction Activities in accordance with Kansas Water Pollution Control General Permit Under the National Pollutant Discharge Elimination System. When the date of start of construction is known, KDWP will apply for that permit.

Please confirm that the classification and permitting status in this email is correct.

Thank you for your expertise and assistance. It is truly appreciated.

Laurie Yasui
Parks Division
Kansas Department of Wildlife and Parks



Laurie Yasui <lauriey444@gmail.com>

Shooting range at Hillsdale State Park

Eric Staab <estaab@kdheks.gov>
To: Laurie Yasui <lauriey444@gmail.com>

Wed, Sep 29, 2010 at 4:27 PM

Laurie,

This confirms KDWP's understanding of KDHE BOW regulations regarding stormwater runoff from the referenced project.

Provided there is no discharge of stormwater in violation of Kansas Water Quality Standards, KDHE will not require an industrial stormwater permit for the facility.

Thank you.

Eric C. Staab, P.E.
Bureau of Water, Industrial Program Section
1000 SW Jackson Boulevard, Suite 420, Topeka, KS 66612-1367
Phone: (785) 296-4347
Fax: (785) 296-5509
Email: estaab@kdheks.gov
Web Site: <http://www.kdheks.gov/stormwater>

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