Natural Resource Restoration Project Proposal for the Southeast Missouri Lead Mining District
Buildings for Babies Foundation property
(part of former Pigman Ranch)

Eleven Point River, Oregon County, Missouri
Submitted by the Missouri Department of Natural Resources
Revised December 2015
Introduction and Background

The federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) authorizes claims for “damages for injury to, destruction of, or loss of natural resources” as a result of the release of a hazardous substance. 42 U.S.C § 9607(a)(4)(C). Any compensation received as a result of resolving a claim for natural resource damages must be used for “the restoration, rehabilitation, or replacement or acquisition of the equivalent of” any lost natural resources or their services. 42 U.S.C. § 9611(i). This CERCLA process is referred to as natural resource damage assessment and restoration (NRDAR), the goal of which is to compensate the public for the loss of resources and their services resulting from a release of a hazardous substance.

Missouri Trustees and the Trustee Council

CERCLA, and its implementing regulations, designated state and federal authorities to act on behalf of the public as trustees for natural resources, including supporting ecosystems, belonging to, managed by, controlled by, or appertaining to such state, or by the United States. 42 U.S.C. § 9607(f); 40 C.F.R. § 600 and § 300.605. Under this authority, the Governor of the State of Missouri has appointed the director of the Missouri Department of Natural Resources (MDNR) as the designated state trustee. The U.S. Fish and Wildlife Service (FWS) is acting as the trustee on behalf of the U.S. Department of the Interior in the Southeast Missouri Lead Mining District (SEMOLMD). The U.S. Forest Service is acting as the trustee on behalf of the U.S. Department of Agriculture (collectively the “Trustees”). The Trustees formed a Trustee Council by a Memorandum of Understanding. The Trustee Council coordinates activities for both assessing injuries to natural resources and their services and the restoration, replacement, rehabilitation or acquisition of the equivalent of the lost natural resources and their services upon receipt of compensation from potentially responsible parties.

Restoration Plan

In 2009, MDNR and FWS successfully resolved a claim for natural resource damages against the American Smelting and Refining Company (ASARCO) resulting in the recovery of approximately $41 million for the SEMOLMD. Since that time, the Trustees have settled several other similar natural resource damage claims within this area, recovering over $1 million from a settlement with Teck American Incorporated and DII Industries, LLC. (relating to operations at the Magmont Mine and Mill) and over $7 million from the Freeport McMoRan settlement, involving Cyprus Amax Minerals Company and Missouri Lead Smelting Company (relating to operations at the Buick Smelter Site). Pursuant to CERCLA, the Trustees developed the Southeast Missouri Ozarks Regional Restoration Plan (SEMORRP) which provides a process framework that governs the approach for restoration project identification, evaluation, selection and implementation. 42 U.S.C. § 9611(i) (the SEMORRP is available at http://dnr.mo.gov/env/hwp/sfund/docs/nrd-final-semorrp.pdf). As part of the restoration process, and depending on settlements, an agency member of the Trustee Council may submit proposal(s) for restoration projects to be evaluated by the larger Trustee Council in accordance with the factors discussed in the SEMORRP.
Property Acquisition Proposal (Buildings for Babies tract)
December 2015

Project Proposal
In its role as a Trustee, MDNR submits the following restoration project proposal to the Missouri Trustee Council. The proposed restoration action is to purchase approximately 1,700 acres of the approximately 2,250 acres of property commonly referred to as the Buildings for Babies Foundation ranch using a portion of the NRDAR funds recovered from the ASARCO settlement as means to acquire the equivalent of natural resources and their services lost as a result of releases of hazardous substances. Figure 1 approximately depicts the acreage MDNR proposes to acquire. MDNR proposes holding title to the property pursuant to its statutory authority to accept and acquire lands. § 253.040 RSMo. A detailed budget is located at the end of this proposal.

MDNR’s ability to manage this property consistent with its management goals and objectives closely parallels the goals of NRDAR and provides a compelling case for acquisition.

Prioritization of Project
MDNR requests the Trustee Council consider this proposal with the context that other portions of the former Pigman Ranch may also be available for acquisition in the near future, including the parcel referred to as the Frederick Creek Ranch, located south of the Buildings for Babies property. See Figure 1. The Eleven Point National Scenic River flows through these properties. As one of the first of eight rivers initially designated under the federal Wild and Scenic Rivers Act almost 50 years ago and the only river in Missouri designated under this act, this restoration opportunity secures additional protection consistent with the goals of the act and gives the State of Missouri its first opportunity to protect and enhance this national treasure.

Figure 1: Aerial view of proposed acquisitions shaded in yellow tones; desired but off-market tract shaded in brown.
MDNR has prioritized acquisition of adjoining tracts for a number of reasons, including:

- These large, contiguous tracts greatly exceed in size anything else that has appeared on any list of available properties within the SEMORRP boundaries. The properties provide an opportunity for significant ecological lift and the Eleven Point River connects these properties with other aquatic resources. There is also an unmatched opportunity for expansion to adjoining properties creating a benchmark property for ecological benefit and park stewardship.

- The properties provide a significant opportunity for meaningful restoration that will benefit multiple species, including migratory birds. The opportunity to substantially improve bird habitat on the properties is clear and MDNR’s Missouri State Parks division has a history of accomplishing similar restoration activities at other state park properties over the last half century, prime examples of which are Cuivre River and Knob Noster State Parks. Following acquisition, MDNR will assess the natural resources of the property, determine restoration needs, and create a specific resource management plan. (MDNR will likely assess this property at the same time it assesses the Frederick Creek Ranch property, and the resulting resource management plan will cover both parcels).

- Past and current property uses include activities that are detrimental to a broad range of natural resources. Specific to the scenic easement area bordering all of the Eleven Point River along these tracts, MDNR is aware of cattle traffic within the riparian zone with evidence of cattle in the creeks and Eleven Point River (both activities are presently authorized under the scenic easement), pigs running loose from their enclosures, a large number of roads and unimproved paths being used by off-road vehicles and significant areas of streambank erosion. Under state ownership, these activities will entirely cease within the easement area, and MDNR’s resource management, through active or passive measures, will allow the impacted areas to recover.

- The properties would provide a connection to nearby federal properties and to other properties along the Eleven Point River protected by easements creating significant ecological benefits beyond the extent of these properties.

- As mentioned above and discussed more specifically below, the mission of Missouri State Parks complements the scenic easement that encumbers the portions of the property directly adjacent to the Eleven Point River. MDNR, as owner of these properties, will not only adhere to restrictions of the current easement, but will also consult with the Forest Service to protect and enhance the natural resources and ecological value of both the terrestrial and aquatic environments in a manner consistent with the purposes of the Wild and Scenic designation.
Property Acquisition Proposal (Buildings for Babies tract)
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Natural History Assessment
Based on several site visits and GIS data

General Description
As shown in Figures 2 and 3 the Buildings for Babies property spans a landscape gradient from high and rolling upland pasture, through steeply dissected and mostly wooded river hills, into the generally open bottomland fields along the west bank the Eleven Point River. For purposes of this proposal, MDNR proposes to acquire approximately 1700 acres of this property. Two of Missouri’s Ecological Land Type Associations are represented: the Howell-Oregon County Oak Woodland Dissected Plain (the historically open oak woodlands and savanna spanning the rolling uplands), and the Eleven Point River Oak-Pine Woodland and Forest (the more heavily timbered oak woodland and forest covering the steeper river hills).

Presently about three-quarters of the property is covered in trees, and most of this is the woodland and forest natural communities of the ridges and tributary hollows leading down to the Eleven Point River. A few patches of riverfront and bottomland forest exist, generally within the Eleven Point River scenic easement.

The balance of the property is pasture or hayfield, and in the uplands these possess a savanna-like arrangement of mature post oaks reminiscent of the native oak woodlands and savannas that once covered the Alton Plain.

The Eleven Point River flows alongside the east boundary of the property for over three miles, with 2.3 miles of direct river frontage. The majority of land bordering the river is floodplain, most of which is presently open hayfield or pasture.

Figure 2: Aerial view of Buildings for Babies parcel
Quality and Character
This is a well-dissected river hills landscape of about 250 feet vertical relief. It is about 75 percent forested, with the forest mostly limited to the steep hills leading down to the Eleven Point River. The dry and dry-mesic woodland natural communities are representative of the oak and pine dominated native vegetation for the Eleven Point River Oak-Pine Woodland & Forest Land Type Association. The trees appear reasonably mature and the forest in good condition. Within the scenic easement, the forest has been allowed to retain a better natural community composition and structure.

The uplands fall within the Howell-Oregon Counties Oak Woodland Dissected Plain Land Type Association. This was historically an open, post oak-dominated area. Numerous very large post oaks persist in the contemporary pasture setting. The open fields are grassy, but lack evidence of native woodland grasses or wildflowers.

There are 2.3 miles of Eleven Point River that directly front the property, plus another 1-mile reach that flows just east of the property boundary. Within the scenic easement, the stream bank and riverfront natural communities are well-developed. Seven major tributary hollows traverse the property, with seasonal flow. Sibkey Spring is a scenic and substantial spring that feeds an impounded pool and possesses a nice spring run (*shown in Photos 9, 10, & 11*). The uplands contain several artificial ponds.

The properties display minor elements of karst features. Unlike the areas just north or south, these properties are not known to have abundant caves, springs or sinkholes. One sink hole is mapped on the Phillips property across the Eleven Point on the east. No sinkholes are mapped or noted on this property. It is not known whether any caves have been recorded.

Conservation Value/Restoration of Ecological Resources
The property lies within the geography of several conservation plans and designations:
Missouri’s Comprehensive Wildlife Strategy recognizes Conservation Opportunity Areas (COA’s), which are recognized as among the best places to conserve native species and habitats. The property lies within the Eleven Point River Hills COA and represents an opportunity to further those strategies which include restoring riparian natural communities, giant cane stands, Ozark hellbender populations, shortleaf pine woodlands, glades, and bat habitat within the COA.

The Nature Conservancy’s Ozark Ecoregional Conservation Assessment recognizes the Current River Landscape Conservation Area as one of the largest intact native landscapes in the Ozarks. Restorable conservation targets that occur in or around the property include deciduous woodlands, bottomland woodlands, cane breaks. Similar conservation targets exist for the species of conservation concern listed in Table 1, below. The embedded Eleven Point River Karst also recognizes the numerous subterranean aquatic stream systems and springs in the area, with their restricted and endemic species such as grotto salamanders, cave amphipods, isopods, the Salem cave crayfish, cave millipede, cavern sheet-web spider and gray bats.

The forested sections of this property lies within Audubon’s Eleven Point River Watershed Important Bird Area (IBA), which designates forest interior bird habitat within the Eleven Point River Watershed as important for migrant and breeding birds. It also recognizes the local forest and riverine habitats’ importance for the Bald Eagle, Cerulean Warbler and Swainson’s Warbler. The values of this property towards the goals of this IBA are detailed in the migratory bird section.

The size of this property and length of Eleven Point River frontage are tremendous conservation assets. Additionally, the property is in close proximity to the Eleven Point – Doniphan Unit of the Mark Twain National Forest and the Irish Wilderness. The amount of forest is significant, even though most of the timber is young and the overall floristic diversity appears modest. Collectively the broad range of landform and natural community types should contain a large complement of native species with good restoration potential. Some of the more heavily forested hillsides appear to be in much better ecological condition.

In its present form and condition, the natural environments offer large spaces for area-sensitive birds and habitats for grassland, woodland, forest interior and riparian bird guilds. The property also provides foraging habitat for numerous bat species, including those of conservation concern. The aquatic resources of the Eleven Point River are well known, and
with miles of perennial and intermittent streams falling through this property into the Eleven Point River there should be a rich representation of Ozark stream communities and aquatic diversity.

The property is currently used as a cattle ranch. The riparian areas show localized, but significant degradation caused by the movement of cattle. Thus, restoration of the riparian areas and eroding stream banks bounding the Eleven Point River and tributaries on the property will provide enhanced protection of the aquatic species on-site and within the watershed. In addition, restoration of areas adjacent to the streams will reduce erosion providing water quality benefits and enhanced habitat.

**Benefit to federal/state listed species; Missouri Species of Conservation Concern**
The Eleven Point River region is biologically rich and diverse, with numerous Natural Heritage Database records for state or federally listed species, and Missouri species and terrestrial natural communities of conservation concern. Most of the Heritage Database records associate with public lands such as the Eleven Point River and area caves, where biological surveys and observations are most likely to occur. Figure 4 depicts the presence of species of concern within the ten mile radius surrounding this property.

![Conservation concern and endangered species recorded locations.](image-url)
### Table 1: Species of Conservation Concern

<table>
<thead>
<tr>
<th><strong>Federal Threatened or Endangered Species</strong></th>
<th><strong>Missouri Threatened or Endangered Species</strong></th>
<th><strong>Missouri Species of Conservation Concern</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ozark Hellbender</strong></td>
<td><em>Cryptobranchus alleganiensis bishopi</em></td>
<td></td>
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<tr>
<td><strong>Gray Bat</strong></td>
<td><em>Myotis griscens</em></td>
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<tr>
<td><strong>Northern Long-eared Myotis</strong></td>
<td><em>Myotis septentrionalis</em></td>
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<tr>
<td><strong>Missouri Threatened or Endangered Species</strong></td>
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<tr>
<td><strong>Missouri Species of Conservation Concern</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Plants</strong></td>
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<tr>
<td><strong>Tansey Mustard</strong></td>
<td><em>Descurainia pinnata ssp pinnata</em></td>
<td>S2/S3: Imperiled/vulnerable</td>
</tr>
<tr>
<td><strong>Elliott Sida</strong></td>
<td><em>Sida elliottii</em></td>
<td>S1: Critically Imperiled</td>
</tr>
<tr>
<td><strong>Arkansas Yucca</strong></td>
<td><em>Yucca arkansana</em></td>
<td>S2: Imperiled</td>
</tr>
<tr>
<td><strong>A Sedge</strong></td>
<td><em>Carex molestiformis</em></td>
<td>S2/S3: Imperiled/vulnerable</td>
</tr>
<tr>
<td><strong>Broadwing Sedge</strong></td>
<td><em>Carex alata</em></td>
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<tr>
<td><strong>Spotted Pondweed</strong></td>
<td><em>Potamogeton pulcher</em></td>
<td>S2/S3: Imperiled/vulnerable</td>
</tr>
<tr>
<td><strong>Mussels</strong></td>
<td></td>
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<tr>
<td><strong>Purple Lilliput (a mussel)</strong></td>
<td><em>Toxolasma lividum</em></td>
<td>S1: Critically Imperiled</td>
</tr>
<tr>
<td><strong>Crustaceans</strong></td>
<td></td>
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<tr>
<td><strong>Coldwater Crayfish</strong></td>
<td><em>Orconectes eupunctus</em></td>
<td>S2: Imperiled</td>
</tr>
<tr>
<td><strong>Amphibians</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Grotto Salamander</strong></td>
<td><em>Eurecea spelaea</em></td>
<td>S2/S3: Imperiled/vulnerable</td>
</tr>
<tr>
<td><strong>Birds</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Greater Road Runner</strong></td>
<td><em>Geococcyx californianus</em></td>
<td>S3: Vulnerable</td>
</tr>
<tr>
<td><strong>Bachman’s sparrow</strong></td>
<td><em>Peucaea aestivalis</em></td>
<td>S1: Critically Imperiled</td>
</tr>
<tr>
<td><strong>Mammals</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Swamp Rabbit</strong></td>
<td><em>Sylvilagus aquaticus</em></td>
<td>S2: Imperiled</td>
</tr>
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_Benefit to Migratory Birds_
The forested sections of this property lie within Audubon’s Eleven Point River Watershed Important Bird Area, which designates forest interior bird habitat within the Eleven Point River Watershed as important for migrant and breeding birds. It also recognizes the local forest and riverine habitats’ importance for the Bald Eagle, Cerulean Warbler and Swainson’s Warbler.

The forested portion of the property is large and contiguous, with much being in a maturing stage of development that likely provides habitat for a suite of forest interior bird species. Most of the rest is regenerating timber that likely supports successional forest species such as the eastern wood pewee, summer tanager, Bewick’s wren, prairie warbler, brown thrasher and yellow-breasted chat. Under MDNR management both the regenerating and the maturing timber would be allowed to develop into natural stands of mature oak woodlands of closed canopy and open understory which would serve populations of eastern wood pewees, summer tanagers and other open woodland obligate species, several of which are declining in their range. Additionally, some of the hollows and steep riverfront areas on the property are covered in mature, closed canopy forests that are good habitat for forest interior birds. This includes migrants such as the whip-poor-will, wood thrush, black and white warbler, Louisiana waterthrush, white-breasted nuthatch which are all listed as conservation targets in The Nature Conservancy’s Ozark Ecoregional Assessment for this region; and the hooded warblers and Acadian flycatchers that are noted as area-important in the Audubon Important Bird Area designation. 

Riverfront forests already line the Eleven Point River banks, and the adjacent floodplain under MDNR management would be restored from its present open pasture condition (Photo 5), to native bottomland forest. This would recreate uninterrupted miles of forested river bottom floodplain to the landscape and benefit priority birds such as Swanson’s, Cerulean and prothonotary warblers that are noted as priority species in the Audubon IBA designation.

The property’s upland fields currently provide spacious grassland bird habitat, large enough to be significant breeding sites for neotropical migrant songbirds. Bachman’s sparrows and greater roadrunners are recorded from nearby fields and uplands, and grassland species
including meadowlarks and field sparrows are common. If restored under MDNR management to a native blend of savanna grassland and open woodlands, the high upland portions would also provide for other “Priority” or “Species of Conservation Concern” birds including northern bobwhite and prairie warbler.

**Context for purchase**

The portion of the Eleven Point River bordering the property has been federally designated pursuant to the Wild and Scenic Rivers Act based on its scenic qualities, including the minimal development along the shoreline and relatively few access points. Springs pouring from dolomite bluffs or rushing up from a vast network of underground flow systems provide a continuous source of water and beauty. In 1996 the USFS estimated that over 11,000 users floated the Eleven Point River annually. The Eleven Point is primarily popular for canoeing and fishing. Anglers can expect to find a variety of species including Rainbow trout, smallmouth bass, black bass, sucker, sunfish, pickerel, and channel catfish. In 1982 the Missouri Department of Conservation evaluated the recreational value of Missouri’s major watersheds and found the Eleven Point River ranked 3rd, behind the Gasconade and Current Rivers.

Purchase of approximately 1,700 acres of the Buildings for Babies Foundation property will allow incorporation of the property within the greater natural resource stewardship program of MDNR’s Missouri State Parks division and would fill a geographic and natural landscape gap for Missouri State Parks system. While the scenic easement provides certain protection within its boundary, MDNR management of the property would remove cattle from the property, protect and restore a much wider expanse of the wild scenery as well as foster regeneration of forest in the open fields, provide ecological restoration and management for the adjacent uplands, and support riparian corridor restoration benefitting the aquatic species adapted to these waters. The primary purpose for acquisition is to preserve the land in a native and natural condition, to preserve high quality natural resources and to restore the fields, bottomland pastures and regenerating forests to native systems.

The Forest Service provides river access both north (at the Riverton Access - river mile 35.6) and south (at The Narrows Access – river mile 44.3) of the property. In addition, the Forest Service offers a breadth of amenities at Boze Mill Springs and other properties. Thus, the proposed acquisition can serve as a valuable addition to the Missouri State Parks system without requiring the development of extensive infrastructure that would impact the ecological restoration goals of the project or compromise the protections for the river provided by the federal easement. In addition, the proximity of the Forest Service’s Irish Wilderness provides a critical hub for the bird and other species impacted by mining and related activities that is
linked to this property by the Eleven Point River corridor. This provides additional ecological value to this property and its restoration.

**Project Benefits**

If this proposal is approved by the Trustee Council, MDNR would add the property to Missouri’s state park system which has been ranked as one of the top four state park systems in the nation on multiple occasions. It contains 87 state parks and historic sites. The mission of the state park system is to preserve and interpret the state’s most outstanding natural landscapes and cultural landmarks, and to provide outstanding recreational opportunities compatible with those resources. With more than 200,000 acres available to the public, the state park system stands in a unique position to secure land for conservation and to preserve and protect the properties’ important natural resources. MDNR’s acquisition and management of the the Buildings for Babies Foundation property is fully compatible with the goal of NRDAR—to compensate the public for the loss of resources and their services resulting from releases of hazardous substances.

**Geographic Scope/Ecologic Benefit and NRDAR Nexus**

The project lies within the prescribed restoration boundaries developed by the Trustee Council and is proposed to serve as a single, readily available mechanism that will, in part, compensate the public for the injuries to natural resources caused by mining related releases of hazardous substances in the SEMOLMD.

The acquisition of this property represents a landscape scale compensatory restoration project that would provide immediate compensation to the public, in the form of perpetual protection and habitat for a diverse array of flora and fauna, including most of the above-noted species of conservation concern. The streams, springs and Eleven Point River corridor communities represent substantially similar aquatic resource to those injured by the releases for which the Trustee Council recovered natural resource damages. The terrestrial environments of the Eleven Point River Oak-Pine Woodland & Forest would likewise be preserved. The upland fields offer opportunities to restore more open woodlands and savanna historically associated with the Howell-Oregon Oak Woodland Dissected Plain.

The property represents a landscape-scale restoration and preservation acquisition for a large, contiguous expanse of natural forests, woodlands, grasslands, riparian zones, streams and springs alongside a stretch of the Eleven Point River. Some of these landscape features are in good to excellent ecological condition, with opportunity through natural community management to improve their ecological quality, diversity and connectivity. Other areas are ecologically suitable restoration sites, to restore upland and riparian natural communities which have been affected by livestock or currently serve as hay fields and pasture. Such restoration would connect the existing forests, expand the size and diversity of continuous forested landscape on the property and along the Eleven Point River, and add to the extensive habitat of the adjacent National Forest lands. Restoration actions would reduce erosion and nutrient loading to the Eleven Point River while providing improved habitat for the species in the Eleven Point River and the tributaries on the property. Due to the presence of losing streams, this
purchase would also protect groundwater resources of the area, particularly any springs or seeps that occur on the property.

**Threats**

Property in the Eleven Point River Watershed is in increasing demand due to the abundance of natural resources protected through public ownership by state and federal governments. The land adjoining public lands has increasingly been developed along roads with housing that is affecting the resources and fragmenting habitat. While Buildings for Babies Foundation property is not listed on the market, it is being privately offered to MDNR and if not acquired and protected, it is likely that this property could be subdivided into smaller parcels and sold someday if the ranch owners elected to relocate or dissolve their business, causing further fragmentation of habitat. Potential development includes housing, smaller farms or logging, with the most likely development being smaller farms. This would lead to further deforestation as land is moved into pasture and would likely result in increased grazing pressure and cattle presence along and within the Eleven Point River. Corresponding to these possible outcomes would be the loss of bird habitat as the forested portions are removed or fragmented, and increased nutrient input into the river with likely adverse impacts to water quality.

Fragmentation of habitat has an especially profound impact on bird species as shown by studies of the source areas of fledged members of migratory bird species and areas where predation is highest. Research in the Midwest has shown that such “source-sink” dynamics result primarily from the effects of high levels of brood parasitism and nest predation in areas where forest fragments fall below a size of approximately 4,000 hectares (10,000 acres) or where forest coverage across broad landscapes falls below 70%. The SEMOLMD sits within the Ozark Ouachita Plateau physiographic area. Maintaining the forested landscapes needed to support source populations of forest birds is probably the single most important contribution that the Ozark Ouachita Plateau physiographic area can make to the conservation of non-game birds. Threats of development to these large tracts increase that fragmentation which reduces broods.

According to Partners in Flight, “relative abundance data from the Breeding Bird Survey (BBS) indicate that this physiographic area supports over 30% of the world’s breeding population of Whippoor-wills, over 15% of the world’s Kentucky Warblers and Summer Tanagers, and over 10% of the Worm-
eating Warblers, Yellow-billed Cuckoos, and Acadian Flycatchers.” Conservation efforts in this
physiographic area have a proportionately greater ability to impact such species as declines or
increases in areas with large percentages of a species global population have a greater effect on
their global abundance than if similar rates of increase or decline occur where there are fewer
individuals. If not acquired by MDNR, possible development, logging or mining could occur on
the property and threaten the connectivity of the system and the continuity of habitat for
Neotropical migrants and other obligate species that depend on this system.

There are currently cattle on the land with unrestricted access to the river. This is causing
stream banks to erode and degrade and impact the river’s water quality and habitat. MDNR
would eliminate cattle from the land, thus eliminating cattle access to the river. The
elimination of cattle from the land and river would add a direct lift to the ecosystem.

If added to the Missouri State Park system, the tract would remain undeveloped with the
exception of trails, parking and potentially camping for the public’s enjoyment and would be
maintained as the native ecosystem that historically was present. This minimal development
approach is critical to protecting the existing habitat and reversing forest habitat
fragmentation.

**Project Goals and Objectives:**
The goal of the project is the purchase, restoration and protection in perpetuity of natural
resources, including native savanna, woodlands and forest, and streams and riparian areas. The
result will be open, grassy savanna and oak woodlands across the upland plain, closed oak-pine
woodland and forest in the river hills, and bottomland forest in the floodplain. This property
provides a unique opportunity for significant ecological improvement as it represents
approximately 1,700 acres of contiguous and varied habitat that would be enhanced.

MDNR will fully document habitat types and conduct species inventories, including the
presence of threatened and endangered species and species of conservation concern.

The following management and long-term stewardship goals and objectives for this property
will be developed and implemented in a manner to maintain consistency with the federal
easement and the overall purposes of NRDAR.

- Focus on the maintenance of existing high quality habitat;
- Contribute to the goals and strategies of regional conservation plans;
- Implement a new management plan similar to those of other state parks, including
  monitoring of ecosystems and representative species present on the property towards
  the goal of establishing self-sustaining ecosystem level improvements;
- Introduce the use of prescribed fire to promote the natural diversity of species and
  natural communities characteristic of this area, particularly the upland woodlands,
  savanna and grasslands that were its historic natural state;
- Restore bottomland forest to the riparian and aquatic areas, which is currently managed
  as domestic pasture and hay ground;
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- Convert the upland pastures to native warm season grassland, while preserving the mature post oaks as a savanna grassland restoration;
- Facilitate cane regeneration;
- Protect the springs and aquatic features within the properties;
- Protect plants and animals of conservation concern found on the property;
- Control invasive plants and animals;
- Monitor vegetation responses to management and populations of sensitive plant and animal species, particularly migratory birds and aquatic life within the adjacent Eleven Point River and its tributaries on these properties; and
- Provide access for public use, through trails and other compatible backcountry recreation.

**Scenic Easement**

As part of MDNR’s mission for Missouri State Parks, MDNR would improve and restore the riparian corridor in the scenic easement by removing livestock and other agricultural uses, stabilizing eroded stream banks and restoring the riparian vegetation to its natural state. In doing so, MDNR would adhere to the easement restrictions and follow the appropriate process for achieving the restoration goals. Additionally, MDNR would like to work with the Forest Service and others to potentially strengthen the easement and to make it reflect the new ownership and common ecological interests of MDNR and our federal partners.

**Long-Term Management:**

The property will be owned by the State of Missouri and operated by MDNR’s Missouri State Parks division. The property will be managed according to a written natural resource management plan for the park, with a focus on preserving the existing upland and riparian forest, and expanding its extent. Tree planting in the bottomland fields, cane and tree planting/restoration in the river bottoms and aquatic system, prescribed burning and exotic species control will be important and necessary elements of site restoration and management. This management framework will protect the property in perpetuity in a manner consistent with and supportive of the goals of NRDAR.

The Division of State Parks promotes recreational use of its properties, but will protect the natural resources of the property by reducing and restoring existing roads and ATV trails on the property. Through the placement of roads and parking, the department will manage human impacts to minimize those impacts. Over 95% of the ‘off-river’ portion of the property is anticipated to be left undeveloped, supporting the natural resource communities present and those that will be restored. This provides a strong framework for restoration and adherence to the NRDAR goals as included in the SEMORRP.
**Proposed Budget:**
A complete management and restoration plan, including and active restoration and management program will be developed for the property. The purpose will be to guide the existing natural vegetation towards our goal, and nurture the remnant native flora and fauna. A comprehensive prescribed fire program will be essential, along with an active and aggressive program to control exotic species, brush, and non-desirable tree regeneration in the uplands and bottom fields including riparian corridors. Due to the large size and complexity of tasks, we need to have a full time natural resource steward, seasonal assistants and a full set of the necessary supplies and equipment to implement restoration. A portion of that cost will be shared with the adjacent Frederick Creek Ranch property, as detailed in the budget presented below.

The Environmental Improvement and Energy Resources Authority will act as the buying agent for the state; their costs and fees are included below.
## Buildings for Babies Proposed Budget

<table>
<thead>
<tr>
<th>Costs Description</th>
<th>Unit Cost</th>
<th>Amount</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land purchase price</td>
<td>2,775</td>
<td>1,704 acres</td>
<td>$4,730,000</td>
</tr>
<tr>
<td><strong>Title work</strong></td>
<td></td>
<td></td>
<td>$3,343</td>
</tr>
<tr>
<td>Land appraisal</td>
<td></td>
<td></td>
<td>$5,100</td>
</tr>
<tr>
<td>Closing fees and EIERA costs</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Natural Resource Restoration and Management***

- **Woodland restoration labor**: understory tree thinning through Americorps
  - $80 per crew member per day;
  - 4 crew members for 2-month work period, each year for three years
  - $30,720

- **Woodland restoration equipment**: 4 chain saws, herbicide and miscellaneous supplies:
  - $1,800

- **Bottomland hardwood seedlings** and planting supplies
  - $10,000

- **Native Grass Seed**: to start conversion of upland pastures to warm season grass savanna
  - $30,000

- **Prescribed fire equipment**: No funds requested. (Will use the equipment purchased for Frederick Creek Ranch)
  - $0

- **Exotic Species Management**: UTV tank sprayers, herbicide
  - $5000

- **UTV for restoration, Rx fire and exotic species control**: No funds requested. (Will use the equipment purchased for Frederick Creek Ranch)
  - $0

- **Natural Resource Steward**: professional resource manager to initiate the biological inventory, woodland/savanna/grassland restoration, exotic species control and prescribed burn program
  - No funds requested. (Will use the same Natural Resource Steward listed in the Frederick Creek Ranch Proposal’s budget)
  - $0

- **Seasonal Natural Resource Labor**: Two 1000-hr seasonal labor positions to help construct fire lines, conduct prescribed burns, assist with woodland/grassland restoration and control exotic plants
  - $10,000 per year, per position
  - Two positions, for two 1000-hr terms each
  - $40,000

*Restoration and Management Total: $117,520

**Total Project Cost**: $4,855,963

**Funding Source**: ASARCO $4,855,963

*Restoration costs are reduced since some restoration costs are covered by the Fredrick Creek purchase
Photos 9 and 10 (above and left): Sibkey Spring, located on Buildings for Babies Foundation property.

Photo 11 (left): Perennial stream flowing from Sibkey Spring to the Eleven Point River (lower right).

Photo 12 (right): Vista from the upland pasture across the Eleven Point valley.
Figure 5: Association of Pigman properties with Watershed Boundaries
Property Acquisition Proposal (Buildings for Babies tract)
December 2015

Figure 6: Association of Pigman properties with nearby USFS amenities