



# Environment and Natural Resources Trust Fund (ENRTF) M.L. 2017 Work Plan

**Date of Report:** October 17, 2016  
**Date of Next Status Update Report:** November 1, 2017  
**Date of Work Plan Approval:**  
**Project Completion Date:** June 30, 2020  
**Does this submission include an amendment request?**

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**PROJECT TITLE: SNA Acquisition, Restoration, Citizen Science & Engagement**

**Project Manager:** Margaret (Peggy) Booth  
**Organization:** Minnesota Department of Natural Resources, Division of Ecological & Water Resources  
**Mailing Address:** 500 Lafayette Road, Box 25  
**City/State/Zip Code:** St Paul, MN 55155-4025  
**Telephone Number:** (651)259-5088  
**Email Address:** [peggy.booth@state.mn.us](mailto:peggy.booth@state.mn.us)  
**Web Address:** [mndnr.gov/snass](http://mndnr.gov/snass)

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**Location:** statewide

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<b>Total ENRTF Project Budget:</b>	<b>ENRTF Appropriation:</b>	<b>\$4,500,000</b>
	<b>Amount Spent:</b>	<b>\$0</b>
	<b>Balance:</b>	<b>\$4,500,000</b>

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**Legal Citation:** M.L. 2016, Chp. xx, Sec. xx, Subd. xx

**Appropriation Language:**

**I. PROJECT TITLE: SNA Acquisition, Restoration, Citizen Science & Engagement**

**II. PROJECT STATEMENT:**

Conservation of the state’s rarest resources through the state Scientific and Natural Areas (SNAs) will be strengthened through strategic acquisition and land protection, monitoring-based restoration and improvements, and citizen science-based action and outreach. About 250 acres of at risk native plant communities and wildlife habitat of state significance identified by the Minnesota Biological Survey (MBS) and the SNA Strategic Land Protection Plan will be acquired and designated as SNAs. Ecological information and monitoring will help guide or evaluate native habitat restoration, enhancement, and site improvement activities on about 1000 acres of SNAs threatened by human impacts, invasive species, and lack of natural disturbance regimes. Furthermore, in cooperation with Conservation Corp of Minnesota, science-based information and citizen science projects will be basis for an expanded SNA outreach initiative including 120 events and a network of SNA site stewards at 130 SNAs.

**III. OVERALL PROJECT STATUS UPDATES:**

**Project Status as of November 1, 2017:**

**Project Status as of April 1, 2018:**

**Project Status as of November 1, 2018:**

**Project Status as of April 1, 2019:**

**Project Status as of November 1, 2019:**

**Project Status as of April 1, 2020:**

**Overall Project Outcomes and Results:**

**IV. PROJECT ACTIVITIES AND OUTCOMES:**

**ACTIVITY 1: Protection of Sites of Biodiversity Significance**

**Description:**

The SNA Program will protect and buffer MBS-recommended sites of biodiversity significance by acquisition and SNA designation of ~250 acres. Proactive landowner contacts will be targeted in 10 high priority opportunity areas identified in the SNA Strategic Land Protection Plan, including prairie core areas in the Minnesota Prairie Conservation Plan. In order to be acquired and designated as SNA, the site must be recommended for SNA designation in an Ecological Evaluation report which serves as the site’s baseline assessment for fee acquisitions. Candidate sites are numerically evaluated with priority to MBS-mapped outstanding and high biodiversity significance sites that are predominantly MBS-mapped native plant communities with habitat for rare species and Species in Greatest Conservation Need. The attached ML2017 Parcel List and ML17 SNA Acquisition and Restoration Projects map set identify priority project areas for this appropriation. The DNR may request to add other qualifying sites to the list. Most acquisition will be of fee title, but if more appropriate, acquisition could be of an SNA-administered conservation easement with SNA designation.

The SNA Program will work with organizations proposing trails on lands acquired with these funds. Consideration will be given to accommodating trails on lands acquired with these funds using criteria including:

1) statutory purpose of SNAs to “protect and perpetuate in an undisturbed natural state those natural features which possess exceptional scientific or educational value” and statutory direction that “physical development shall be limited to facilities absolutely necessary for protection, research, and educational projects, and where appropriate, for interpretive services;” 2) measures needed to appropriately protect and manage specific natural features the site would be designated to protect; 3) pre-existing trail corridors and corridors of disturbance; and 4) a commitment to long term trail monitoring and trail management responsibilities by a third party.

Conservation easement monitoring will be done on about 6 SNA-held conservation easements. The SNA Program manages 20 SNA-related conservation easements (protecting over 1510 acres within or adjoining 10 SNAs). The goal of the SNA Program is to monitor each easement every 3 years, so through this appropriation about 6 easements would receive a formal on-site monitoring visit with results entered into the department land records, landowners contacted, management opportunities identified, and follow-up visits conducted if needed to address issues discovered.

The *SNA Strategic Land Protection Plan* will continue to be updated to incorporate new MBS and other resource data into the GIS-based decision support tool software. In order to refine priorities and increase coordinated rare resource protection with partners and to implement Minnesota Wildlife Action Plan, new MBS and other scientific data (such as information on sites of statewide geological significance) will be incorporated into an updated SNA Strategic Plan and GIS maps.

About 8 biodiversity significance sites will gain additional protection and ecological-based natural resource management through establishment of or revisions to Natural Area Registry (NAR) agreements overseen by the SNA Program. This will allow the Division of Ecological and Water Resources (EWR) staff to negotiate and reach agreements on SNA-like protection to be added to lands owned and managed by other public entities, such as the DNR Division of Forestry and counties who might otherwise utilize traditional timber harvest practices. Through the NAR, the primary land administrator and EWR/SNA Program enter into a NAR memorandum of understanding to manage the site to SNA standards and in coordination with EWR/SNA staff. The status of NAR agreements is confirmed by the SNA Program every 1-2 years.

**Summary Budget Information for Activity 1:**

**ENRTF Budget: \$ 1,778,655**  
**Amount Spent: \$ 0**  
**Balance: \$ 1,778,665**

<b>Outcome</b>	<b>Completion Date</b>
1a. acquisition as SNA of ~250 acres of high quality habitat	6/30/20
1b. proactive landowner contact in ~10 priority areas for acquisition/protection	6/30/20
1c. monitoring for ~6 SNA conservation easements	6/30/20
1d. acquisition prioritization – refinement of acquisition decision tools/Plan	6/30/20
1e. ~8 Natural Area Registry agreements on biodiversity significant sites	6/30/20

*Note: budget for this Activity includes \$11,005 for direct & necessary services which are prorated across all costs except budgets for landowner payments; no direct & necessary charges are budgeted for the \$1.5M in landowner payments nor \$100K in transaction costs; actual charges will be based on actual expenditures.*

**Activity Status as of November 1, 2017:**

**Activity Status as of April 1, 2018:**

**Activity Status as of November 1, 2018:**

**Activity Status as of April 1, 2019:**

**Activity Status as of November 1, 2019:**

**Activity Status as of April 1, 2020:**

**Final Report Summary:**

**ACTIVITY 2: Native Habitat Restoration, Enhancements & Improvements**

**Description:**

Native habitat restoration and site improvements activities will be completed on about 1000 acres at about 50 state designated SNAs as guided by ecological data and monitoring. Management plans will be completed for about 15 SNAs (including sites acquired through these funds as time permits). Ecological resources and management practices at about 25 SNAs will be monitored to improve adaptive management for better habitat for rare species and Species of Greatest Conservation Need. Interpretive signs-kiosks will be developed and installed at about 8 SNAs. SNA staff will provide ecological and technical guidance and on-site verification for 9 projects implemented by partners on SNAs.

Restoration and improvement activities will be carried out by DNR staff/SNA crews, Conservation Corps of Minnesota, contractors Sentence to Service, and/or volunteers. Activities include seed collection, site preparation, planting and aftercare; invasive species treatment and woody encroachment removal; prescribed burns (or alternative prescribed disturbance for ecological management purposes, such as prescribed haying, mowing or grazing, necessary where use of fire is limited); site clean-up, signing, design and installation of interpretive kiosks, fencing (removal or installation as needed for management purposes); coordination, technical/ecological oversight and field verification of projects implemented by partners; management plan preparation; and baseline ecological condition assessments and monitoring. Restoration uses seeds of a local ecotype, collected from onsite or within 25 miles. Restoration and enhancement of degraded and rare land features helps implement the Minnesota Wildlife Action Plan and achieve Habitat Recommendation 5 of the SCPP. This activity includes work to bring acquired parcels up to the DNR’s minimum standards and includes restoration and improvements of acquired sites if ecologically advisable and feasible within the appropriation period.

The Adaptive Management Spatial Database (AMSD) was initially developed with ENRTF support in order to accurately map and document implementation of restoration and enhancement projects done at SNAs and linking these accomplishments to specific project funding. Through this appropriation, improvements will be made to the database to add or link restoration/management plans, ecological monitoring data, and other Natural Heritage Information System (e.g. MBS data) to the database. Through this, restoration activities will be more accurately and fully informed and improved by the best available science.

**Summary Budget Information for Activity 2:**

**ENRTF Budget: \$ 1,984,354**  
**Amount Spent: \$ 0**  
**Balance: \$ 1,984,354**

<b>Outcome</b>	<b>Completion Date</b>
2a. ~55 acres of restoration of forest, prairie, & outcrop sites	6/30/20
2b. ~340 acres of woody removal & exotics species treatment	6/30/20
2c. ~660 acres of prescribed burns	6/30/20
2d. ~8 SNA interpretive kiosks installed AND development work on ~32 sites	6/30/20
2e. ecological/technical guidance for ~9 partnership projects	6/30/20
2f. management plans completed for ~15 SNAs	6/30/20

2g. adaptive management monitoring on ~25 SNA sites	6/30/20
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*Note: total budget for this Activity includes \$111,454 for direct & necessary (D&N) services which are prorated across all costs except single source contracts. Estimated costs for single source contracts, specifically CCM contracts and MNIT service level agreement (SLAs), are taken off the top, prior to using the D&N calculator. Therefore, no D&N charges will be paid for CCM contracts (estimated at \$150K) and no D&N charges will be paid for MNIT SLAs (estimated at \$25K). Actual charges will be based on actual expenditures.*

**Activity Status as of November 1, 2017:**

**Activity Status as of April 1, 2018:**

**Activity Status as of November 1, 2018:**

**Activity Status as of April 1, 2019:**

**Activity Status as of November 1, 2019:**

**Activity Status as of April 1, 2020:**

**Final Report Summary:**

**Activity 3: Citizen Science & Public Engagement in Natural Areas**

Science-based information will drive the engagement of Minnesotans in citizen science, monitoring and education activities on SNAs. A partnership with the Conservation Corps of Minnesota (CCM) will sustain a network of 130 SNA volunteer site stewards; organize about 120 events focusing on citizen science monitoring and bio-blitzes, plus volunteer work days, and recreation-educational events (guided nature hikes, etc.) and evaluating the effectiveness of these actions. Ecological and safety training, guidance, and support materials will be provided for site stewards as necessary to recruit and retain these volunteers and ensure their work on SNAs is safe and ecologically appropriate. New and refined electronic/social media communications tools, maps, brochure, and interpretive information will be developed and disseminated to advance the public’s understanding of natural systems and biodiversity science and to enhance appropriate recreational use of SNAs.

Work will be accomplished in part with the involvement of three CCM individual placement positions each full time for 2 years. These positions will do substantial outreach, computer, GIS, web, and social media work and may be located in different regions/offices, so each of the 3 CCM individual positions needs its own computer/software and phone. The DNR will provide the office space for each CCM individual. However, the DNR proposes to use ENRTF funds to pay what it is charged monthly by MNIT for the CCM individuals’ phone and computer/software for the duration of these positions under this appropriation.

**Summary Budget Information for Activity 3:**

**ENRTF Budget: \$ 736,991**  
**Amount Spent: \$ 0**  
**Balance: \$ 736,991**

<b>Outcome</b>	<b>Completion Date</b>
3a. SNA website, e-book, social media, maps, brochure & other interpretive info	6/30/20
3b. ~ 120 citizen science & volunteer events (management work days & ed. events)	6/30/20
3c. network of volunteer site stewards at ~130 SNAs	6/30/20

*Note: total budget for this Activity includes \$31,353 for direct & necessary services which are prorated across all costs except single source contracts. Estimated costs for single source contracts, specifically CCM contracts, are taken off the top, prior to using the D&N calculator. Therefore, no D&N charges will be paid for CCM contracts (estimated at \$228K). Actual charges will be based on actual expenditures.*

**Activity Status as of November 1, 2017:**

**Activity Status as of April 1, 2018:**

**Activity Status as of November 1, 2018:**

**Activity Status as of April 1, 2019:**

**Activity Status as of November 1, 2019:**

**Activity Status as of April 1, 2020:**

**Final Report Summary:**

**V. DISSEMINATION:**

**Description:**

Dissemination will primarily be achieved through the SNA webpage on the DNR website: [mndnr.gov/snass](http://mndnr.gov/snass), through the SNA Facebook page, and through *Nature Notes* – the SNA Program e-newsletter distributed through GovDelivery.com to subscribers and possibly through Tweets on the DNR Twitter site. Specifically, the DNR website will be updated with information on the new or expanded SNAs. Announcements of the acquisitions and some restoration-related activities will be posted on the SNA Facebook page.

**Activity Status as of November 1, 2017:**

**Activity Status as of April 1, 2018:**

**Activity Status as of November 1, 2018:**

**Activity Status as of April 1, 2019:**

**Activity Status as of November 1, 2019:**

**Activity Status as of April 1, 2020:**

**Final Report Summary:**

**VI. PROJECT BUDGET SUMMARY:**

**A. ENRTF Budget Overview:**

<b>Budget Category</b>	<b>\$ Amount</b>	<b>Overview Explanation</b>
Personnel:	\$ 1,600,000	Coordinators & Planner (1.9 FTE for 2 yrs); spec's, tech's & naturalists (8.0 FTE for 2 yrs); laborers & seasonal field crews (1.9 FTE for 2 yrs)
Professional/Technical/Service Contracts:	\$ 752,000	CCM is used under a DNR master contract and other contractors will be selected following state procurement & bidding processes – <u>Professional/Technical Contracts</u> – interpretive kiosks research & design; mgmt. plans; adaptive

		mgmt. monitoring; Conservation Corps Minnesota (CCM) individual placement & other contractors doing citizen science, outreach, etc. <u>Service Contracts</u> (including CCM) – restoration, woody encroachment removal & invasives treatment; prescribed burning, haying, mowing, browsing, & grazing; site development (fences, signs, etc)
Contract	\$ 25,000	IT Services (Mn.IT service agreements) Adaptive Management Spatial Database upgrades to integrate restoration planning/ecological data, implementation & monitoring
Equipment/Tools/Supplies:	\$ 110,588	parts, tools, repair costs & supplies for restoration, invasives treatment, prescribed burning, haying, mowing or grazing, management plans, & monitoring; interpretive panel supports, signs & posts, fencing, & other site development tools & supplies
Fee Title Acquisition:	\$ 1,500,000	~250 acres in 2-6 parcels to be designated as SNA & owned in fee by DNR
Professional Services for Fee Title and Easement Acquisition:	\$ 100,000	Includes real estate transaction costs & LAM billings; appraisal & review; boundary survey; attorney general; closing costs; recording fees & taxes; etc. <\$20K/parcel
Printing:	\$ 16,200	State register printing of acquisition designation orders; printing of interpretive sign panels; outreach materials (e.g. brochure, maps, etc.)
Travel Expenses in MN:	\$ 235,650	Fleet charges for trucks, cars, & equipment (e.g. mowers, seeders), mileage, lodging & meals as per state contracts. The fleet charges are use charges (by mile traveled or monthly charge which we pro-rate) for the specific equipment utilized for this project.
Other:	\$ 6,150	Computer & phone monthly charges for CCM individual placement positions (\$6,150)
Other:	\$ 153,812	Direct & Necessary Services for the appropriation
<b>TOTAL ENRTF BUDGET:</b>	<b>\$ 4,500,000</b>	

**Explanation of Use of Classified Staff:** Consistent with approved work plans for previous ENRTF appropriations for the SNA Program, this funding will be used to pay project-associated costs for classified and unclassified staff paid mostly with special project funds. These positions would not exist, but for special project funding received through the ENRTF and other funds. Each year these positions are assigned work based on the particular combination of soft funding available to address priority SNA Program activities.

Direct and Necessary expenses are for Department Support Services (Human Resources, IT Support, Safety, Financial Support, Communications Support, Planning Support, and Procurement Support. Department Support Services are described in the agency Service Level Agreement, and billed internally to divisions based on rates that have been developed for each area of service. These services are directly related to and necessary for the appropriation. Department leadership services (Commissioner’s Office and Regional Directors) are not assessed.

Those elements of individual projects that put little or no demand on support services such as large single-source contracts, land acquisitions, and funds that are passed-thru to other entities are not assessed Direct and Necessary costs for those activities. Estimated costs for acquisition costs single source contract are taken off the top, prior to using the D&N calculator. Therefore, no D&N charges will be paid for landowner payments (~\$1,500,000), acquisition professional services (\$100,000), CCM contracts (~\$378,000), and MnIT service level agreement (~\$25,000). In addition to itemized costs captured in the proposal budget, direct and necessary costs cover HR/People Support (\$34,804), Safety Support (\$9,748), Financial Support (\$32,805), Communication Support (\$6,580), IT Support (\$64,330), Planning Support (\$4,560), and Procurement Support (\$985) that are necessary to accomplishing funded programs/projects.

**Explanation of Capital Expenditures Greater Than \$5,000:** NA

**Number of Full-time Equivalent (FTE) Directly Funded with this ENRTF Appropriation:** 11.8 FTE each for two years spread over 25-35 positions – for a total of 23.6 FTEs

**Number of Full-time Equivalent (FTE) Estimated to Be Funded through Contracts with this ENRTF Appropriation:** up to 1.0 FTE for 1 year for professional technical contract; & up to 10.0 FTE for 1 year for CCM & 2.0 FTE fieldwork contractors for 1 year – for a total of 13 FTEs

**B. Other Funds:**

Source of Funds	\$ Amount Proposed	\$ Amount Spent	Use of Other Funds
Non-state	\$0	\$0	We seek landowner and partner donations for acquisitions. If any other funds are used for landowner payments for acquisitions funded in part with this appropriation, accomplishments will be pro-rated by the actual expenditures per funding source.
State**	\$0**	\$0**	Some SNA acquisitions are funded with a combination of state appropriations (e.g. OHF and RIM). If any other funds are used for landowner payments for acquisitions funded in part with this appropriation, accomplishments will be pro-rated by the actual expenditures per funding source. In-kind contributions by the project manager to administer this project and office/computer/phone costs for DNR staff work on this project will not be tracked.
<b>TOTAL OTHER FUNDS:</b>	<b>\$0</b>	<b>\$0</b>	

\*\* As indicated below, Outdoor Heritage Fund appropriations for acquisition and prairie restoration and enhancement occur concurrently with this ENRTF appropriation. These OHF funds are used for similar but separate projects as the ENRTF funding. Because of the multiple, overlapping appropriations, it would not be accurate to list those as match here. Also, the SNA program typically annually receives an internal general fund grant for about \$30,000 for similar but separate invasive species projects.

**VII. PROJECT STRATEGY:**

**A. Project Partners:**



**Partners receiving ENRTF funding – none.**

**Partners NOT receiving ENRTF funding**

This proposal includes the DNR’s work and funding to be used by the SNA Program towards partnership project work on SNAs. Partners include entities, such as The Nature Conservancy, Friends of the Mississippi River, Great River Greening, Sugarloaf Northshore Stewardship Assn., local units of governments, and other non-profits.

**B. Project Impact and Long-term Strategy:**

Achieving the goals of the SNA Strategic Land Protection Plan to protect 136,000 more acres as SNAs this century, as well as the science-based land management and public engagement depends upon ongoing support from the Environment and Natural Resources Trust fund of \$5M to \$10M per biennium. Annual/biennial appropriations will also be sought from the Outdoor Heritage Fund and state bonding.

**C. Funding History:**

<b>Funding Source and Use of Funds</b>	<b>Funding Timeframe</b>	<b>\$ Amount</b>
ENRTF ML13, Ch 52, Sec 2, Subd 4b: SNA acquisition, restoration, enhancement & public	July 2013-June 2016	\$ 1,500,000
ENRTF ML14, Ch226, Subd 7a: SNA acquisition, restoration, enhancement & public engagement	July 2014-June 2017	\$ 2,540,000
ENRTF ML15, Ch76, Sec 2, Subd 9c: SNA acquisition, restoration, enhancement & public engagement	July 2015-June 2018	\$ 4,000,000
ENRTF ML16, Ch186, Sec 2, Subd 91a: Scientific and Natural Area restoration	July 2016-June 2019	\$ 1,386,000
ENRTF ML16, Ch186, Sec 2, Subd 91b: Minnesota Point Pine Forest SNA addition	July 2016-June 2019	\$ 500,000
OHF ML12, Ch262, Art1, Sec2, Subd 4h: Accelerated Prairie – SNA prairie restoration & enhancement (estimated SNA portion only)	July 2012-June 2017	\$ 276,940
OHF ML13, Ch137, Art1, Sec2, Subd 4g: Accelerated Prairie – SNA prairie restoration & enhancement (estimated SNA portion only)	July 2013-June 2018	\$ 144,170
OHF ML13, Ch137, Art1, Sec2, Subd 4c: SNA & NPB acquisition (estimated SNA portion only)	July 2013-June 2018+	\$ 246,500
OHF ML14, Ch256, Art1, Sec2, Subd 4h: Accelerated Prairie – SNA prairie restoration & enhancement (estimated SNA portion only)	July 2014-June 2019	\$ 285,650
OHF ML15, 1SS, Ch1, Art1, Sec2, Subd 2a: SNA acquisition	July 2015-June 2020+	\$ 1,000,000
OHF ML15, 1SS, Ch1, Art1, Sec2, Subd 2k: Accelerated Prairie – SNA prairie restoration & enhancement (estimated SNA portion only)	July 2015-June 2020	\$ 762,000
OHF ML16, Ch171, Art1, Sec2, Subd 2a: SNA acquisition	July 2016-June 2021+	\$ 228,000
OHF ML16, Ch171, Art1, Sec2, Subd 2j: Accelerated Prairie – SNA prairie restoration & enhancement (estimated SNA portion only)	July 2016-June 2021	\$ 527,900
State Wildlife Grant (federal) – SNA management plans	March 2012-August 2013	\$ 49,800

**VIII. REPORTING REQUIREMENTS:**

- The project is for 3 years, will begin on July 1, 2017, and end on June 30, 2020.

- Periodic project status update reports will be submitted November 1 and April 1 of each year.
- A final report and associated products will be submitted by August 15, 2020 (or as soon as possible after state fiscal year closeout).

**IX. VISUAL COMPONENT or MAP(S):** See attached ML17 SNA Acquisition and Restoration Projects map set.

**X. FEE TITLE ACQUISITION/CONSERVATION EASEMENT/RESTORATION REQUIREMENTS:**

**A. Parcel List:** See attached list.

**B. Acquisition/Restoration Information:**

**Fee Title Acquisition**

**1. Describe the selection process for identifying and including proposed parcels on the parcel list, including explanation of the criteria and decision-making process used to rank and prioritize parcels.**

To be acquired and designated as SNA, the site must be recommended for SNA designation in an Ecological Evaluation report which serves as the site’s baseline assessment for fee acquisitions. All such sites are predominantly MBS-mapped native plant communities and contain habitat for rare species and Species of Greatest Conservation Need. In addition, SNA staff use the “*SNA Candidate Site Evaluation Guide*” (initially developed through the ENRTF-funded SNA strategic planning process) which incorporates criteria to rate which sites are currently pursued. Criteria include diversity and quality of the native habitat, occurrence of rare species, occurrence of native plant communities under-represented in SNA system, parcel size, location of parcel in relation to biodiversity hotspots (particularly MBS-mapped areas of outstanding and high biodiversity significance) and other conservation lands (including *SNA Strategic Land Protection Plan’s* Conservation Opportunity Areas and *Minnesota Prairie Conservation Plan’s* Core Areas), potential for long-term management, and additional factors (e.g. landowner readiness, urgency, and willingness to donate; degree of threat, and partnership opportunities).

**2. List all adopted state, regional, or local natural resource plans in which the lands included in the parcel list are identified. Include a link to the plan if one is available.**

- *SNA Strategic Land Protection Plan* – [www.dnr.state.mn.us/eco/sna/plan](http://www.dnr.state.mn.us/eco/sna/plan)
- *Minnesota’s State Wildlife Action Plan* – [www.dnr.state.mn.us/cwacs](http://www.dnr.state.mn.us/cwacs)
- *Minnesota Prairie Conservation Plan* – [www.dnr.state.mn.us/prairieplan](http://www.dnr.state.mn.us/prairieplan)

**3. For any parcels acquired in fee title, a restoration and management must be prepared. Summarize the components and expected outcomes of restoration and management plans for parcels acquired by your organization, how these plans are kept on file by your organization, and overall strategies for long-term plan implementation, including how long-term maintenance and management needs of the parcel will be financed into the future.**

Each parcel acquired as a new SNA in fee will have an Adaptive Management Plan (AMP) or if as an addition to an existing SNA, that SNAs Management Plan may be amended to add the new parcel. The AMPs include goals, ecological description, priority features with indicators, and management recommendations. The intended outcome of management of SNAs is that 1) all the lands be native plant communities or restored to plant communities that would have been native to the site, 2) these plant communities are sustained over time, and 3) that visitors are accommodated safely (unless visitor access is restricted by designation order). The goals for the SNA’s management are based upon soils, topography, geology, and other factors necessary to sustain the plant community. Each plan includes an implementation timetable which summarizes ongoing management needs and a statement on funding. Long-term management costs (e.g. invasive species treatments, prescribed fire, and monitoring/evaluation) will be covered by a combination funding sources, including, but not limited to, ENRTF, Outdoor Heritage Fund (OHF), federal grants, and

other funds as appropriated. Each AMP is kept in a DNR internal shared electronic filing system accessible to all SNA staff.

**4. For each parcel to be conveyed to a State of Minnesota entity (e.g., DNR) after purchase, provide a statement confirming that county board approval will be obtained.**

The DNR follows Minnesota Statutes 84.033 which require that any land acquired for designation as a SNA must have county board approval as prescribed under MS 97A.145.

**5. If applicable (see M.S. 116P.17), provide a statement confirming that written approval from the DNR Commissioner will be obtained 10 business days prior to any final acquisition transaction.**

As part of the DNR acquisition process, all SNA acquisitions are required to have approval of the Ecological and Water Resources Division Director and land conveyances are accepted by the Director or Deputy Director of Division of Lands and Minerals who have delegated authority to approve this for the Commissioner.

**Restoration**

**1. Provide a statement confirming that all restoration activities completed with these funds will occur on land permanently protected by a conservation easement or public ownership.**

All restoration-related activities done with this appropriation are on lands designated as SNA which the state owns in fee or easement.

**2. Summarize the components and expected outcomes of restoration and management plans for the parcels to be restored by your organization, how these plans are kept on file by your organization, and overall strategies for long-term plan implementation.**

Each restoration project will be based upon an ecological restoration and management plan and/or project plan with goals for reconstructing plant communities that are native to the site that are based upon soils, topography, geology, and other factors necessary to sustain the plant community. Each plan includes an implementation timetable which summarizes ongoing management needs. Each restoration and management plan and project plan is kept in a DNR internal shared electronic filing system accessible to all SNA staff.

**3. Describe how restoration efforts will utilize and follow the Board of Soil and Water Resources “Native Vegetation Establishment and Enhancement Guidelines” in order to ensure ecological integrity and pollinator enhancement.**

The SNA Program follows or exceeds the recommendations found in the BWSR “Native Vegetation Establishment and Enhancement Guidelines”. SNA restorations typically follow the current BOWSR Guidelines, including Project Guidance, Plant Community Restoration, Temporary Cover and Forest/Woodlands. The SNA Program follows the general direction of the BWSR Guidelines for “Recommended Steps for Obtaining Plant Materials”, and has additional and more restrictive requirements for restoration material sources. Specifically, restoration and management of DNR lands are governed by DNR Operational Order #124 on “Plant Material Standards for Native Plant Community Restoration” and #130 on “Pollinator Habitat” (which include BMPs).

**4. Describe how the long-term maintenance and management needs of the parcel being restored with these funds will be met and financed into the future.**

Long-term management costs (e.g. invasive species treatments, prescribed fire/disturbance, and monitoring/evaluation) will be covered by a combination of funding sources, including, but not limited to, ENRTF, Outdoor Heritage Fund (OHF), federal grants, and other funds as appropriated.

**5. Describe how consideration will be given to contracting with Conservation Corps of Minnesota for any restoration activities.**

DNR has a standing general contract with CCM under which the SNA Program often does project or activity specific agreements. For restoration and site improvement projects, CCM has been and will continue to be used when appropriate for hand seed harvest, invasive species treatment, prescribed burning, and will be considered on restoration projects for post-planting weed control.

- 6. Provide a statement indicating that evaluations will be completed on parcels where activities were implemented both 1) initially after activity completion and 2) three years later as a follow-up. Evaluations should analyze improvements to the parcel and whether goals have been met, identify any problems with the implementation, and identify any findings that can be used to improve implementation of future restoration efforts at the site or elsewhere.**

Plant community reconstruction and rehabilitation projects will be evaluated and a report submitted to the LCCMR to ascertain how well the native plants have been established and non-natives controlled. Each evaluation report will include a summary of management plan outcomes, activities completed through the project, map of the project area, statement of ongoing management needs and funding, and summary of the evaluation.



ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET	Activity 1 Budget	Amount Spent	Activity 1 Balance	Activity 2 Budget	Amount Spent	Activity 2 Balance	Activity 3 Budget	Amount Spent	Activity 3 Balance	TOTAL BUDGET	TOTAL BALANCE
<b>BUDGET ITEM</b>	<b>Protection of Sites of Biodiversity Significance</b>			<b>Native Habitat Restoration, Enhancement &amp; Improvements</b>			<b>Citizen Science &amp; Public Engagement in Natural Areas</b>				
<b>Personnel (Wages and Benefits)</b>	\$150,800	\$0	\$150,800	\$1,072,400	\$0	\$1,072,400	\$377,400	\$0	\$377,400	\$1,600,600	\$1,600,600
<b>Position Type 1: Coordinators &amp; Planner</b> - Activity 1: ~0.3 FTE acquisition-related for 2 yrs; Activity 2: ~0.8 FTE resto-related for 2 yrs; Activity 3: ~0.8 FTE outreach-related for 2 yrs - all spread over ~5 positions (total: \$345,78K)											
<b>Position Type 2: Specialists, Technicians, &amp; Naturalists</b> - Activity 1: ~0.7 FTE acquisition-related for 2 yrs; Activity 2: ~5.7 FTE resto-related for 2 yrs; Activity 3: ~1.6 FTE outreach-related for 2 yr - all spread over about ~14 positions (total: \$1,121,82M)											
<b>Position Type 3: Laborers &amp; Seasonal Field Crews</b> - all Activity 2: ~1.9 FTE for 2 yrs - spread over ~9-15 positions (total: \$133K)											
<b>Professional/Technical/Service Contracts</b>	\$0	\$0	\$0	\$509,000	\$0	\$509,000	\$243,000		\$243,000	\$752,000	\$752,000
<b>Professional/Technical Contracts</b>											
Act. 2d. ~8 interpretive kiosk research & design (~\$8K) - contractors to be selected following state procurement & bidding processes											
Act. 2f. ~10 mgmt. plans (~\$75K) - contractors to be selected following state procurement & bidding processes											
Act. 2g. adaptive mgmt. monitoring at ~3 SNAs (~\$8K) - contractors to be selected following state procurement & bidding processes											
Act. 3. CCM individual placement (3 FTE for 2 yrs = 6.0 FTE total) (\$228K); other contractors doing citizen science/outreach/interpretive events, writing & photographic services (\$15K)											
<b>Service Contracts</b>											
Act. 2 including 2c. restoration-related activities (~\$38K at ~\$2000-\$5000/ac) - priority given to CCM; contractors to be selected following state procurement & bidding processes											
Act. 2b. woody encroachment removal & invasives treatment (~\$310K at ~\$1000-\$10,000/ac) - priority given to CCM; contractors to be selected following state procurement & bidding processes											
Act. 2c. prescribed burning, haying, mowing, browsing or grazing (~\$40K at ~\$100-\$1000/ac - priority given to CCM; contractors to be selected following state procurement & bidding processes											
Act. 2d. site development (fences, signs, etc) (~\$30K) - priority given to CCM; contractors to be selected following state procurement & bidding processes											
<b>Contract:</b> IT Services (Mn.IT service agreements) Adaptive Management Spatial Database upgrades to integrate restoration planning/ecological data, implementation & monitoring	\$0	\$0	\$0	\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$25,000	\$25,000
<b>Equipment/Tools/Supplies</b>	\$0	\$0	\$0	\$80,900	\$0	\$80,900	\$29,688	\$0	\$29,688	\$110,588	\$110,588
Activity 2: parts, tools, repair costs & supplies for restoration, invasives treatment, prescribed burning, etc (this is largely for SNA tools, such as chain saws, pump cans, drip torches, fire racks, pulaskis, other handtools, backpack sprayers, portable pumps & hose, personal protective equipment, etc, & supplies such as herbicides, spreading oils, flagging, stakes, etc) (~\$25.7K); signs (interpretive, entry, boundary & rules signs), posts/hardware, fencing, gravel, & other site development tools & supplies (~\$49.6K); monitoring supplies & materials (~\$5.6K). Activity 3: citizen science, volunteer events & site steward supplies (including safety items, hand tools, training materials, temporary signs, stamps, envelopes, etc) (~\$26.688K).											
<b>Fee Title Acquisition</b>	\$1,500,000	\$0	\$1,500,000							\$1,500,000	\$1,500,000
~250 acres in 2-6 parcels to be designated as SNA & owned in fee by DNR											
<b>Professional Services for Acquisition</b>	\$100,000	\$0	\$100,000							\$100,000	\$100,000
Includes real estate transaction costs & LAM billings; appraisal & review; boundary survey; attorney general; closing costs; recording fees & taxes; etc. ~\$20K/parcel											
<b>Printing</b>	\$800	\$0	\$800	\$3,000	\$0	\$3,000	\$12,400	\$0	\$12,400	\$16,200	\$16,200
Activity 1: State Register publication (required to designate acquired parcels) (\$0.8K) ; Activity 2: interpretive sign panels (\$3K); Activity 3: brochure, maps, pocket cards, citizen science, educational & volunteer materials (\$12.4K).											
<b>Travel expenses in Minnesota</b>	\$16,050	\$0	\$16,050	\$182,600	\$0	\$182,600	\$37,000	\$0	\$37,000	\$235,650	\$235,650
Fleet charges for trucks, cars, & equipment (e.g. mowers, seeders), mileage, lodging & meals as per state contracts											
<b>Other</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$6,150	\$0	\$6,150	\$6,150	\$6,150
* Computer & phone charges for CCM individual placement (\$6,150)											
<b>Other</b>	\$11,005	\$0	\$11,005	\$111,454	\$0	\$111,454	\$31,353	\$0	\$31,353	\$153,812	\$153,812
* DNR's direct and necessary costs (\$153,812 total) pay for activities that are directly related to and necessary for accomplishing appropriated programs/projects. In addition to itemized costs captured in our proposal budget, direct and necessary costs cover HR/People Support (\$34,804), Safety Support (\$9,748), Financial Support (\$32,805), Communication Support (\$6,580), IT Support (\$64,330), Planning Support (\$4,560) and Procurement Support (\$985) that are necessary to accomplishing funded programs/projects.											
<b>COLUMN TOTAL</b>	<b>\$1,778,655</b>	<b>\$0</b>	<b>\$1,778,655</b>	<b>\$1,984,354</b>	<b>\$0</b>	<b>\$1,984,354</b>	<b>\$736,991</b>	<b>\$0</b>	<b>\$736,991</b>	<b>\$4,500,000</b>	<b>\$4,500,000</b>

**Environment and Natural Resources Trust Fund  
2017 Proposed Acquisition/Restoration List**

Project Title: SNA Acquisition, Restoration, Citizen Science & Engagement

Project Manager Name: Margaret (Peggy) Booth

Organization: Mn Department of Natural Resources

ENRTF \$ Request: \$4,500,000

Project Length and Completion Date: 3 years, June 30, 2010

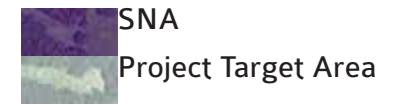
Date of Report: September 14, 2016

#	Acquisition or Restoration Parcel Name	Geographic Coordinates Format: [Deg.] [Min.] [Sec.] [Hemis.]		Estimated Cost	Estimated Annual PILT Liabilities	County	Site Significance	Activity Description	# of Acres	# of Shoreline Miles	Type of Landowner	Proposed Fee Title or Easement Holder (if applicable)	Status
		Latitude	Longitude										
1	Blue Devil SNA addition	44° 47' 32.4"	95° 32' 36.7"	\$ 800,000	\$ 2,250	Yellow Medicine	MBS-mapped prairie/outcrop with rare features	fee title acquisition	200		private	DNR-SNA	
2	Cedar Mountain SNA addition	44° 30' 22"	94° 54' 16"	\$ 800,000	\$ 4,406	Redwood	MBS-mapped prairie/outcrop with rare features	fee title acquisition	200		private	DNR-SNA	
3	Chanarambie Creek	43° 54' 22.4"	96° 1' 51.9"	\$ 480,000	\$ 4,776	Murray	dry hill prairie & prairie meadow	fee title acquisition	120		private	DNR-SNA	
4	Des Moines River SNA addition	43° 44' 38.5"	95° 4' 8.7"	\$ 200,000	\$ 1,281	Jackson	buffer to SNA to aide in mgmt. of native prairie	fee title acquisition	50		private	DNR-SNA	
5	Dexter Prairie	43° 45' 13.4"	92° 43' 9.5"	\$ 140,000	\$ 500	Mower	wet to wet-mesic tallgrass prairie of outstanding biodiversity	fee title acquisition	20		private	DNR-SNA	
6	Dinner Creek	47° 4' 21.5"	95° 12' 7.5"	\$ 356,700	\$ 2,496	Becker	white cedar swamp, aspen-birch-basswood forest, Jack pine woodland, red-white pine woodland	fee title acquisition	242	0.5	private	DNR-SNA	
7	Drake Woods	43° 33' 54.0"	94° 6' 23.51"	\$ 2,000,000	\$ 11,250	Faribault	best intact MBS mapped hardwood forest in south central MN	fee title acquisition	300	1.5	private	DNR-SNA	
8	Englund Ecotone SNA addition	45° 41' 19.3"	94° 8' 53.2"	\$ 2,148,000	\$ 8,256	Benton	oak forest, oak savanna, sedge meadow	fee title acquisition	358		private	DNR-SNA	
9	Felton Prairie SNA addition	46° 52' 1.6"	94° 8' 53.2"	\$ 1,000,000	\$ 1,500	Clay	wet-mesic or dry prairie	fee title acquisition	200		private	DNR-SNA	
10	Franconia Bluffs SNA addition	45° 22' 4.9"	92° 41' 53.6"	\$ 480,000	\$ 2,600	Chisago	forested bluff along St. Croix River	fee title acquisition	80		private	DNR-SNA	
11	Gully Fen SNA addition	47° 46' 58.7"	95° 38' 0.6"	\$ 754,800	\$ 7,200	Polk	fen - wetland-Forest	fee title acquisition	1200		private	DNR-SNA	
12	Hastings Sand Coulee SNA addition	44° 41' 41.9"	92° 49' 22.5"	\$ 250,000	\$ 611	Dakota	prairie	fee title acquisition	16		private	DNR-SNA	
13	Little Mantrap Lake	47° 6' 56.8"	95° 10' 25.4"	\$ 500,000	\$ 3,570	Becker	mixed mesic hardwood forest/peatland communities	fee title acquisition	230	0.5	private	DNR-SNA	
14	Mille Lacs Moraine SNA addition	46° 16' 58.3"	93° 51' 10.9"	\$ 713,000	\$ 2,385	Crow Wing	MBS-mapped forest communities & habitat for rare birds	fee title acquisition	265	0.5	private	DNR-SNA	
15	Morton Rock Outcrops SNA addition	44° 32' 59.4"	94° 59' 33.8"	\$ 20,000	\$ 200	Renville	southern bedrock outcrops	fee title acquisition	4		private	DNR-SNA	
16	Myhr Creek Ridge SNA addition	47° 50' 17.8"	90° 0' 29.1"	\$ 160,000	\$ 540	Cook	black spruce jack pine woodland	fee title acquisition	80		private	DNR-SNA	
17	Middle Fork Zumbro River Forest	44° 9' 8.4"	92° 48' 6.3"	\$ 1,000,000	\$ 6,300	Dodge	sugar maple - basswood-(butternut hickory) forest	fee title acquisition	300	4	private	DNR-SNA	
19	Roscoe Prairie SNA addition	44° 7' 14.0"	94° 40' 37"	\$ 240,000	\$ 414	Stearns	wet prairie with rare butterfly habitat	fee title acquisition	40		private	DNR-SNA	
20	Rose Dell Prairie	45° 25' 12.7"	96° 21' 15.5"	\$ 400,000	\$ 1,115	Pipestone	MBS-mapped prairie with rare features	fee title acquisition	80		private	DNR-SNA	
21	Sandpiper Prairie SNA addition	47° 14' 32.2"	96° 24' 16.3"	\$ 100,000	\$ 731	Norman	wet-mesic prairie	fee title acquisition	100		private	DNR-SNA	
22	Seminary Fen SNA addition	44° 55' 15.4"	93° 18' 27.8"	\$ 120,000	\$ 2,836	Carver	calcareous fen	fee title acquisition	20		private	DNR-SNA	
23	Spring Hill Fen	45° 33' 16.2"	94° 49' 29.6"	\$ 600,000	\$ 2,813	Stearns	calcareous fen	fee title acquisition	150		private	DNR-SNA	
23	Avon Hills Forest SNA	45° 38' 7.0"	94° 30' 6.7"	\$ 46,500		Stearns	sand gravel prairie (towards succession to oak savanna/forest)	restore prairie	15		public	DNR-SNA	
24	Blanket Flower Prairie SNA	46° 41' 7.7"	96° 12' 18.1"	\$ 36,000		Clay	dry gravel prairie	restore prairie	36		public	DNR-SNA	
25	Cannon River Turtle Preserve SNA	44° 34' 22.1"	92° 40' 42.1"	\$ 23,000		Chisago	bedrock bluff prairie	restore prairie	7		public	DNR-SNA	
26	Franconia Bluffs SNA	45° 22' 4.9"	92° 41' 53.6"	\$ 46,500		Chisago	St Croix River bluff	restore prairie	20		public	DNR-SNA	
27	Icelandite Coastal Fen SNA (proposed)	47° 47' 46.6"	90° 7' 1.8"	\$ 4,000		Cook	gravel-cobble beach & shrub rich fen	restore shoreline vegetation	1		public	DNR-SNA	
28	Iona's Beach SNA	47° 10' 3.7"	91° 25' 19.7"	\$ 4,000		Lake	lake superior rocky shore plant community, beach composed of pink rhyolite or felsite	restore shoreline vegetation	1		public	DNR-SNA	
29	Little Too Much Lake SNA	47° 37' 35.4"	93° 46' 27.4"	\$ 4,000		Itasca	aspen-birch red maple forest	restore forest	2		public	DNR-SNA	
30	Mound Springs Prairie SNA	44° 46' 27.4"	96° 26' 12.4"	\$ 15,000		Yellow Medicine	dry hill & mesic prairie	restore prairie	10		public	DNR-SNA	
31	Sandpiper Prairie	47° 14' 32.2"	96° 24' 16.3"	\$ 40,000		Norman	wet-mesic prairie	restore prairie	40		public	DNR-SNA	
32	Seminary Fen SNA	44° 48' 39.0"	93° 33' 11.5"	\$ 23,000		Carver	wet prairie	restore prairie	7		public	DNR-SNA	

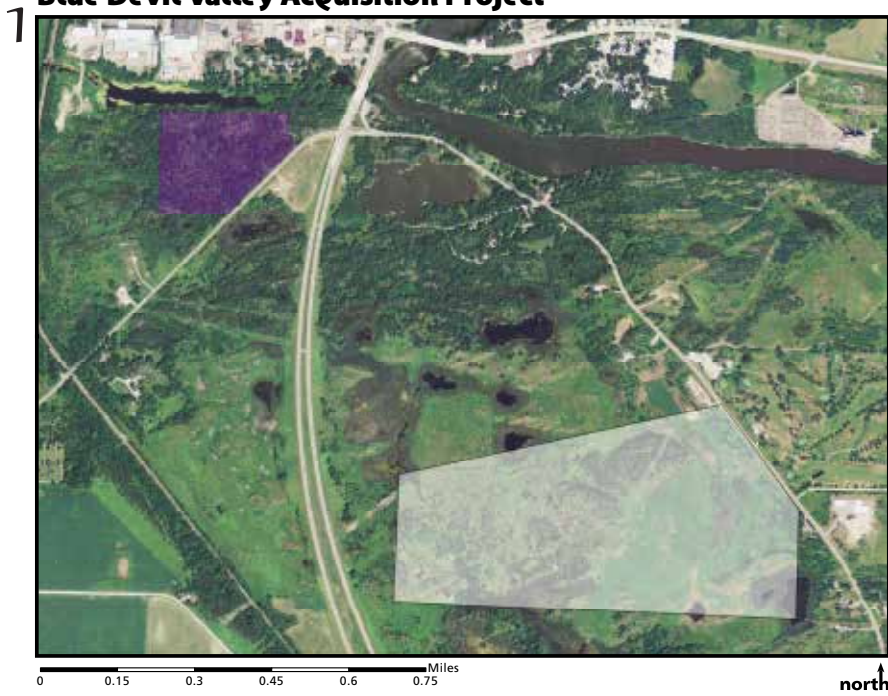
NOTES:



# ML17 SNA Acquisition and Restoration Projects



## 1 Blue Devil Valley Acquisition Project



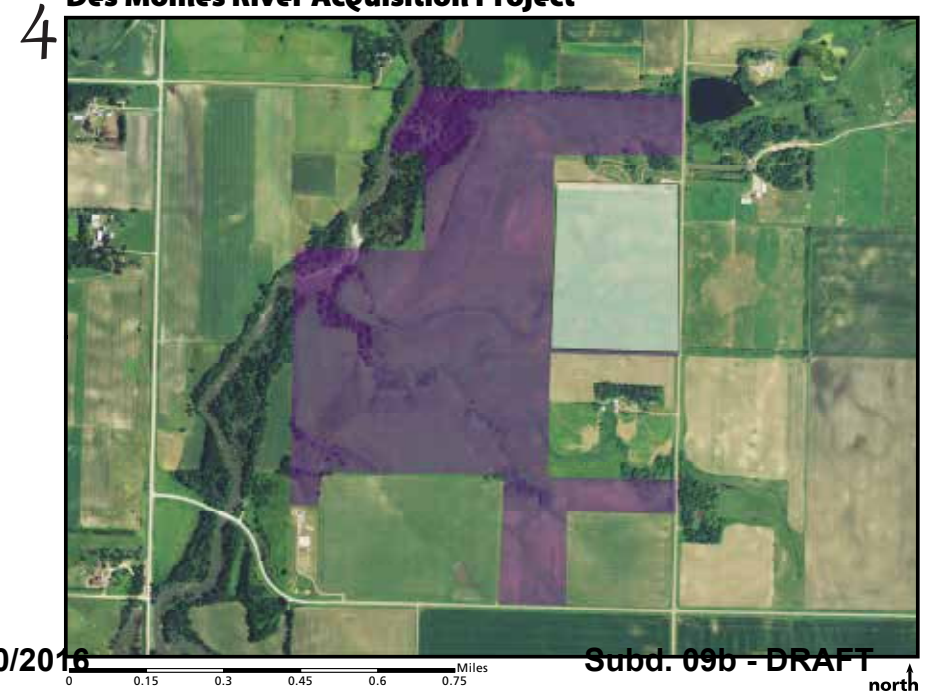
## 2 Cedar Mountain Acquisition Project



## 3 Chanarambie Creek Prairie Acquisition Project

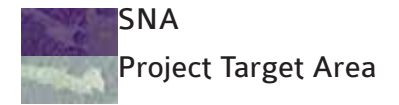


## 4 Des Moines River Acquisition Project





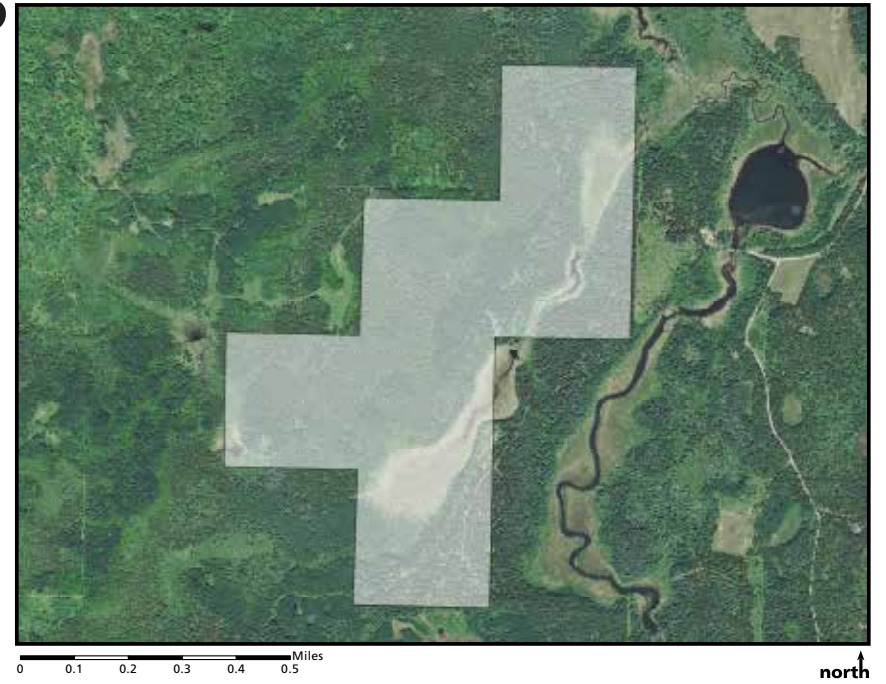
# ML17 SNA Acquisition and Restoration Projects



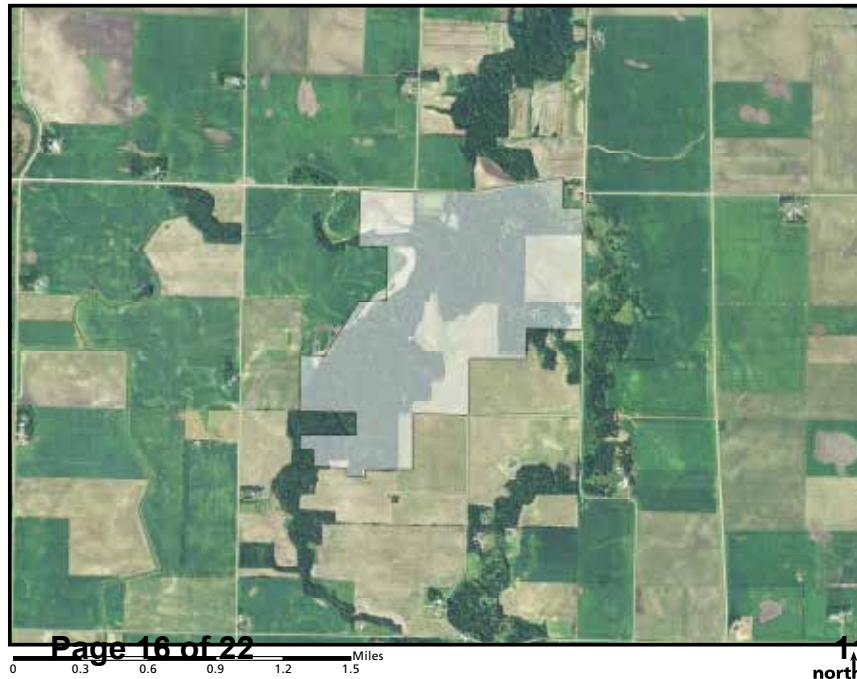
5 **Dexter Prairie Acquisition Project**



6 **Dinner Creek Acquisition Project**



7 **Drake Woods Acquisition Project**

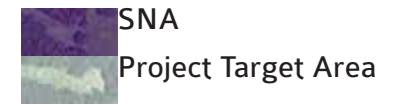


8 **Englund Ecotone Acquisition Project**

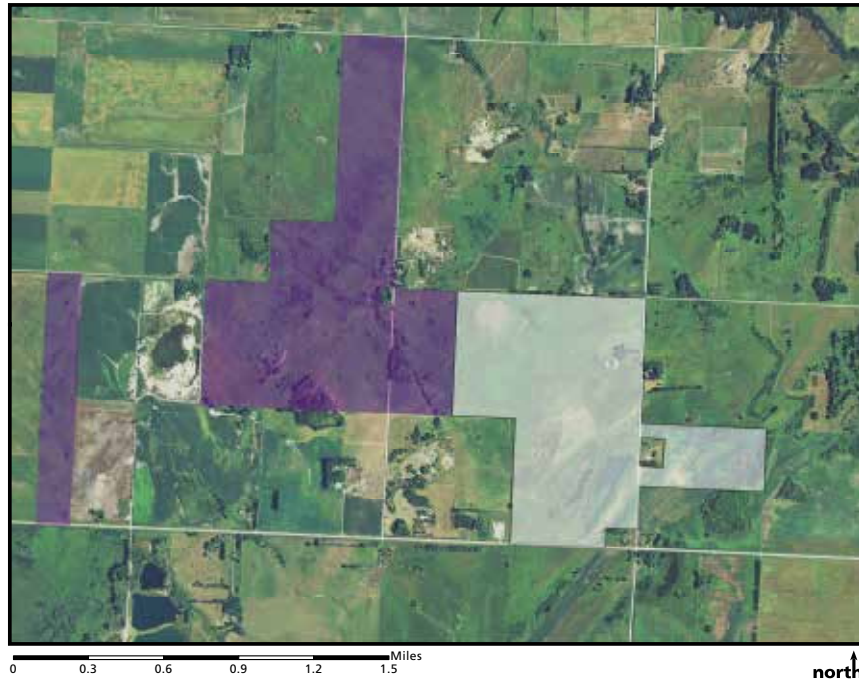




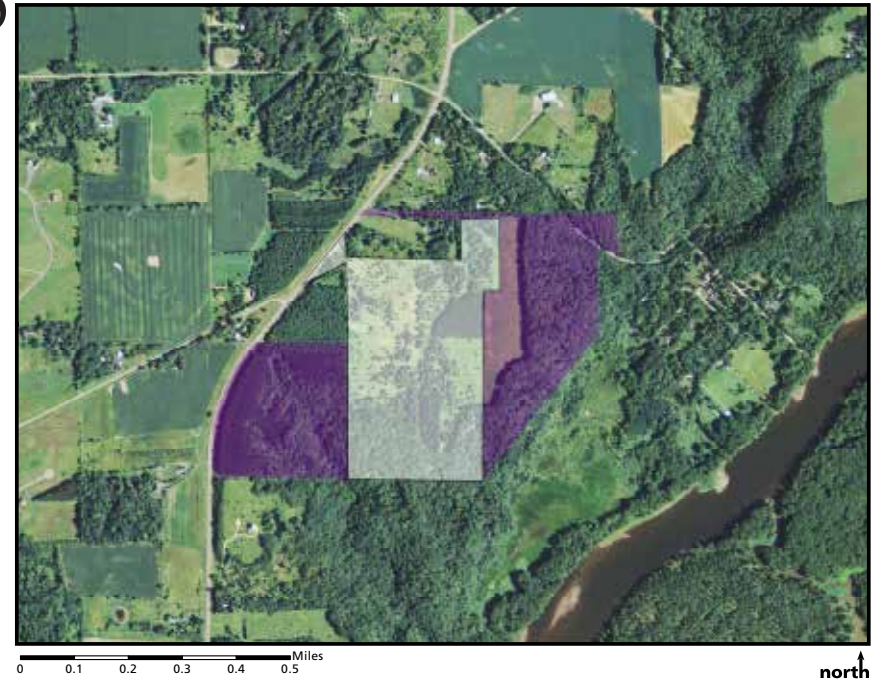
# ML17 SNA Acquisition and Restoration Projects



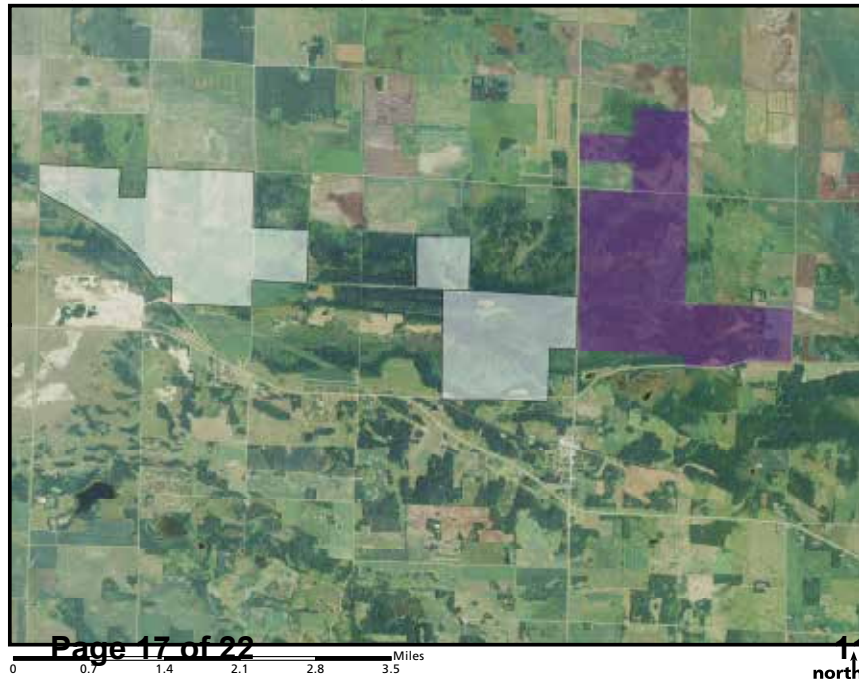
9 **Felton Prairie (Assinaboia Unit) Acquisition Project**



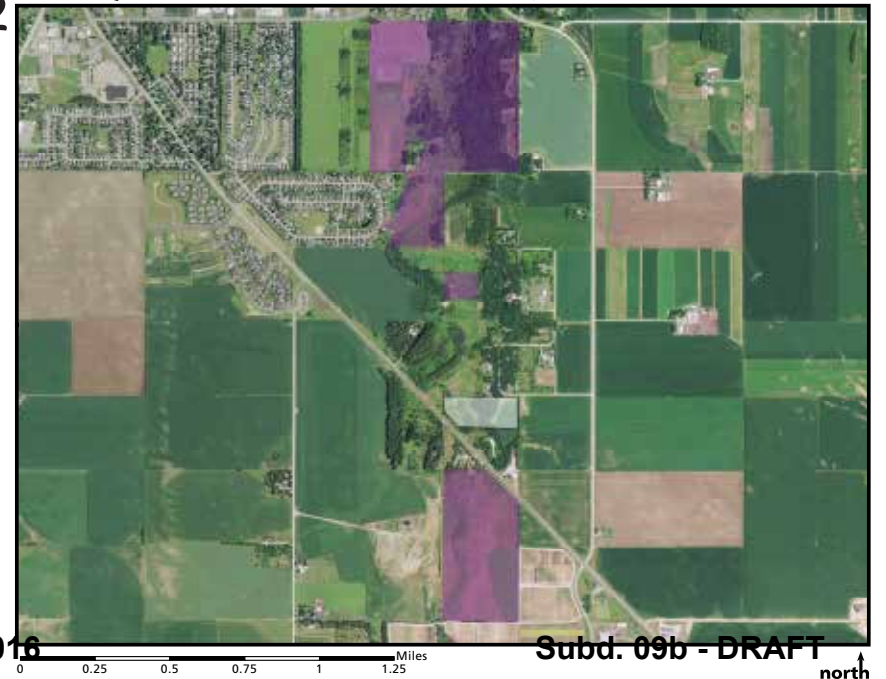
10 **Franconia Bluffs Acquisition Project**



11 **Gully Fen Acquisition Project**

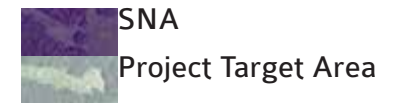


12 **Hastings Sand Coulee Acquisition Project**





# ML17 SNA Acquisition and Restoration Projects



13 **Little Mantrap Lake Acquisition Project**



14 **Mille Lacs Moraine Acquisition Project**



15 **Morton Outcrops Acquisition Project**

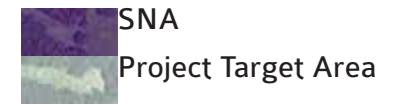


16 **Myhr Creek Ridge Acquisition Project**





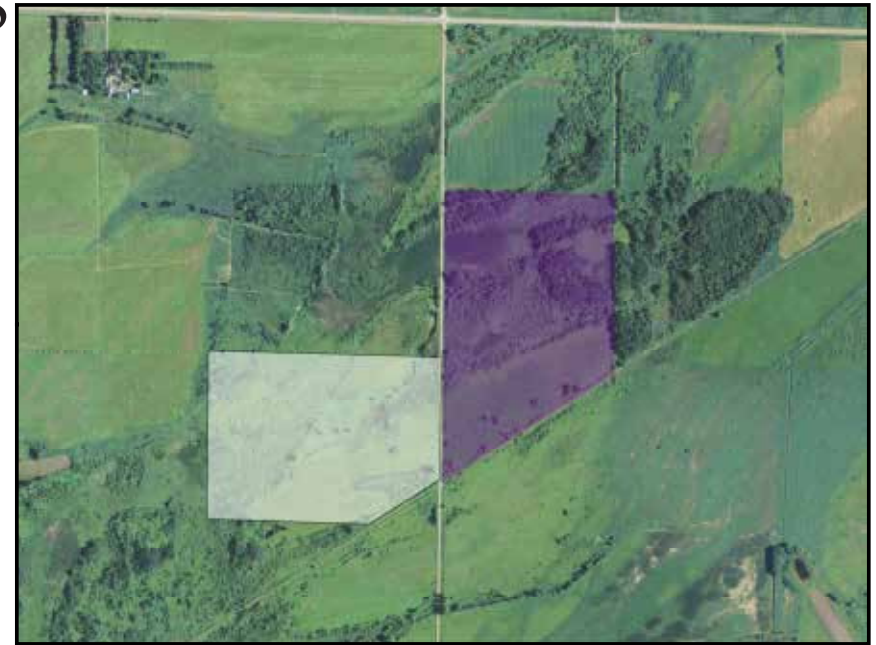
# ML17 SNA Acquisition and Restoration Projects



17 **Middle Fork Zumbro River Forest Acquisition Project**



18 **Roscoe Prairie Acquisition Project**



19 **Rose Dell Acquisition Project**

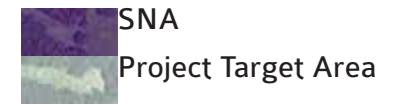


20 **Sandpiper Prairie Acquisition Project**

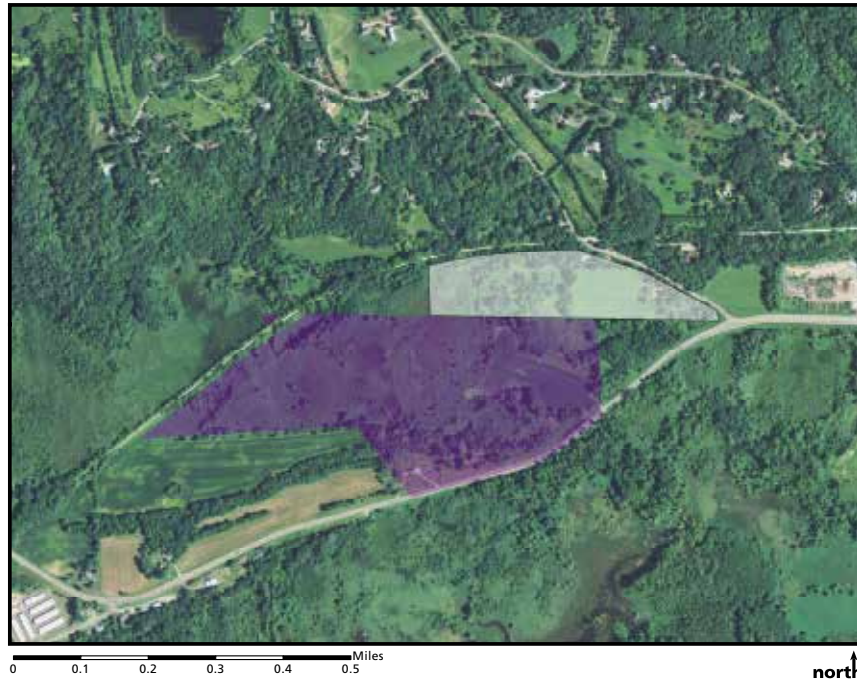




# ML17 SNA Acquisition and Restoration Projects



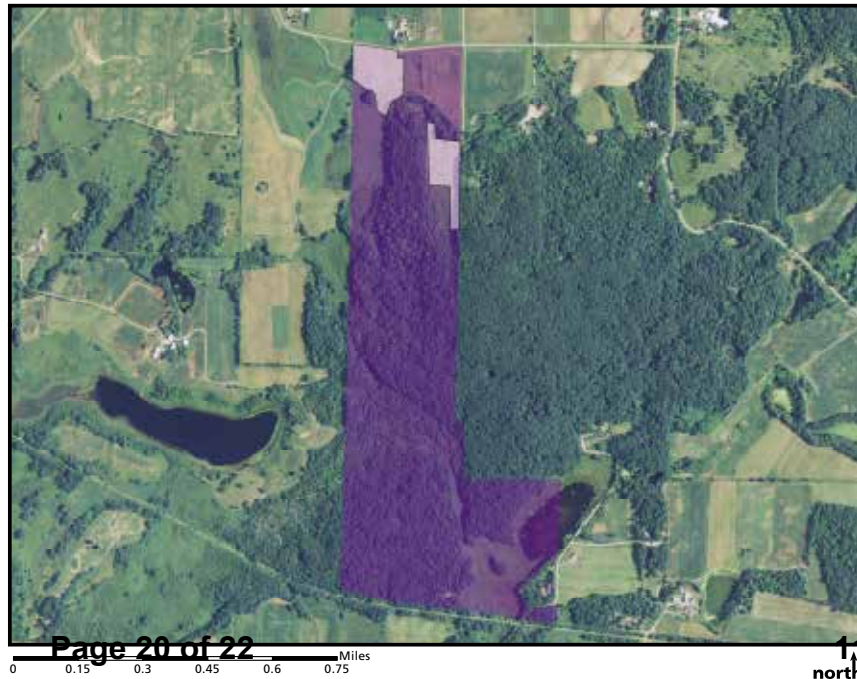
21 **Seminary Fen Acquisition Project**



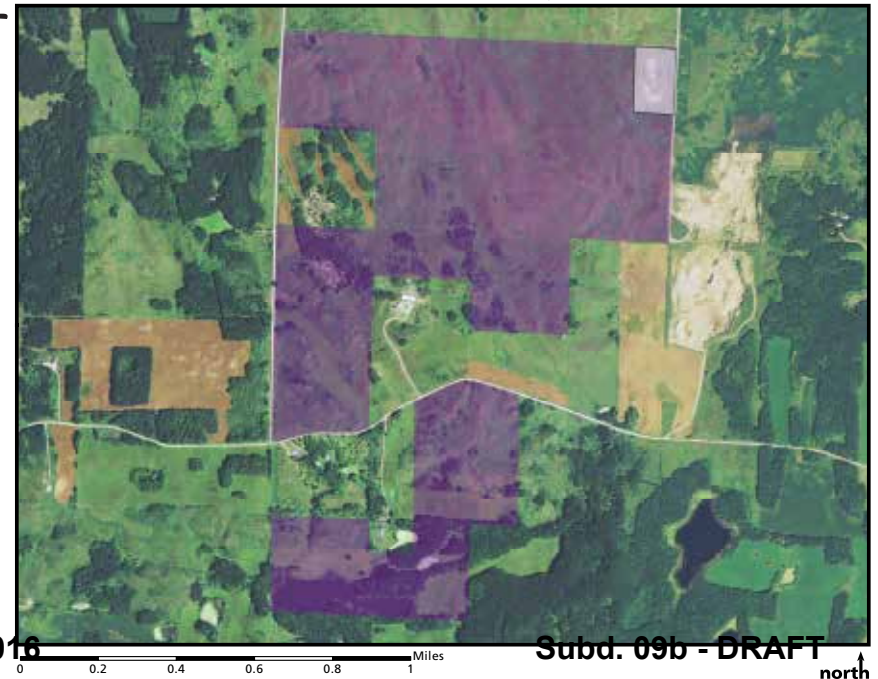
22 **Spring Hill Fen Acquisition Project**



23 **Avon Hills Forest Restoration Project**

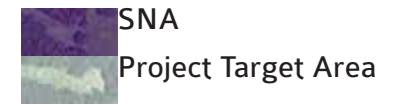


24 **Blanket Flower Prairie Restoration Project**

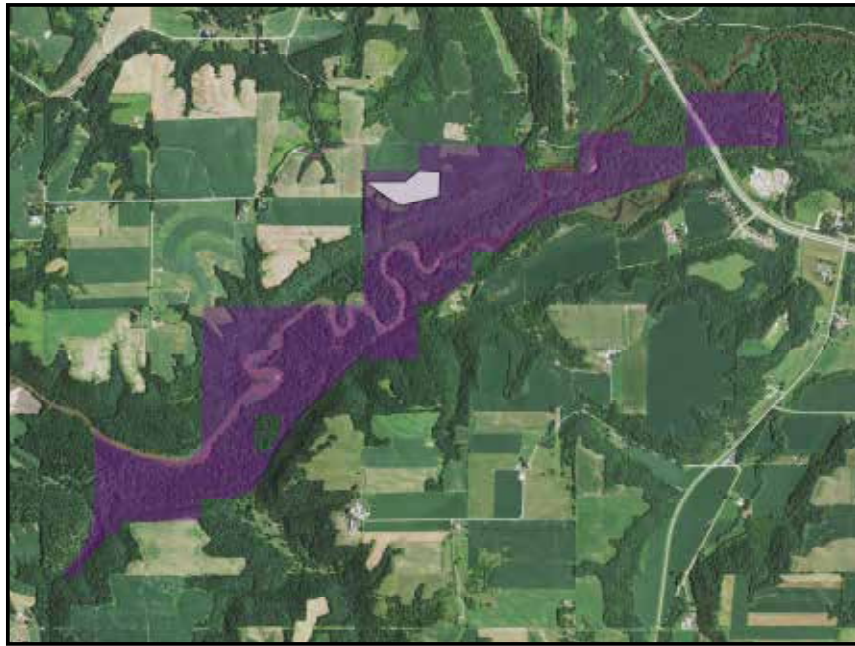




# ML17 SNA Acquisition and Restoration Projects



25 **Cannon River Turtle Preserve Restoration Project**



26 **Franconia Bluffs Prairie Restoration Project**



27 **Icelandite Coastal Fen Restoration Project**



28 **Iona's Beach SNA Vegetation Restoration Project**





# ML17 SNA Acquisition and Restoration Projects



29 **Little Too Much Lake SNA Forest Restoration Project**



0 0.1 0.2 0.3 0.4 0.5 Miles

north ↑

30 **Mound Springs Prairie SNA Prairie Restoration Project**



0 0.15 0.3 0.45 0.6 0.75 Miles

north ↑

31 **Sandpiper Prairie SNA Prairie Restoration Project**



0 0.2 0.4 0.6 0.8 1 Miles

north ↑

32 **Seminary Fen Restoration Project**



0 0.1 0.2 0.3 0.4 0.5 Miles

north ↑