

Agenda

Natural Resource Commission

Thursday, August 17, 2023

Teleconference: 442-242-3609 PIN: 883 789 392#

Video Conference: meet.google.com/sco-mbns-qva

Thursday, August 17, 2023

9:30 AM – NRC Business Meeting

Public participation begins at approximately 10:00am. If you are unable to attend the business meeting, comments regarding agenda items may be submitted for public record to Alicia Plathe at Alicia.Plathe@dnr.iowa.gov or 502 East 9th St, Des Moines IA 50319 up to 24 hours prior to the business meeting.

1.	Approval of Agenda Consent Agenda (*within agenda indicates proposed consent agenda item) *8. Public Land Management Projects (8.1-8.3)	Decision	Commission
2.	Approval of the Minutes	Decision	Commission
3.	Director's Remarks	Information	Kayla Lyon
4.	Division Administrator's Remarks	Information	Pete Hildreth
5.	Donations	Decision	Pete Hildreth
6.	Grant Recommendations- Wildlife Habitat Promotion with Local Entities Program Grants	Decision	Todd Bishop
7.	Contract Amendment with Wiss, Janney, Elstner Associate, Inc-Fort Atkinson Historic District	Decision	Sherry Arntzen
*8.	Public Land Management Projects	Decision	Travis Baker
8.1	Chapter 17 lease – Clayton County – Viserion Grain, LLC	Decision	Travis Baker
8.2	28-E Management Agreement - South Fork Mill Creek Mitigation Site – Iowa Department of Transportation - Jackson County	Decision	Travis Baker
8.3	Contract Amendment- 3 with Sunderman Farm Management Co.	Decision	Travis Baker
9.	Land Acquisition	Decision	Travis Baker
9.1	Otter Creek, Fayette County – Medberry Farms	Decision	Travis Baker
9.2	Perkins Marsh Wildlife Management Area, Palo Alto County – Herke Revocable Trust	Decision	Travis Baker
9.3	Fish Farm Mounds Wildlife Management Area, Allamakee County – Van Brocklin	Decision	Travis Baker
9.4	Big Marsh Wildlife Management Area, Butler County – Steven and Diane Winkey	Decision	Travis Baker
9.5	Trout Run WMA, Winneshiek County – Kelly Bachelder	Decision	Travis Baker
10.	Construction-Large Projects	Decision	Travis Baker
10.1	Three Mile Lake, Water Quality Improvements and Fish Habitat – Union County	Decision	Travis Baker
10.2	Little Sioux Access, Parking Lot – Harrison County	Decision	Travis Baker
10.3	Maquoketa Caves State Park, Wastewater Treatment – Jackson County	Decision	Travis Baker
10.4	DLS Shooting Range, Range Renovation – Scott County, IA	Decision	Travis Baker
11.	Contract with Shive-Hattery-Engineering Services	Decision	Travis Baker
12.	Contract with the City of Creston-McKinley Lake	Decision	Travis Baker
13.	Contract with the City of Grinnell-Arbor Lake and Lake Nyanza	Decision	Travis Baker
14.	General Discussion		

Upcoming NRC Meeting Dates

- Thursday, September 14, 2023, Wallace Building
- Thursday, October 12, 2023, Wallace Building

For details on the NRC meeting schedule, visit:

<http://www.iowadnr.gov/InsideDNR/BoardsCommissions/NaturalResourceCommission.aspx>

Comments during the public participation period regarding proposed rules or notices of intended action are not included in the official comments for that rule package unless they are submitted as required in the Notice of Intended Action.

Any person attending the public meeting and has special requirements such as those related to mobility or hearing impairments should contact the DNR or ADA Coordinator at 515-725-8200, Relay Iowa TTY Service 800-735-7942, or Webmaster@dnr.iowa.gov, and advise of specific needs.

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**MINUTES OF THE
NATURAL RESOURCE COMMISSION
MEETING**

July 13, 2023

**Video Teleconference
and
Wallace State Office Building**

Approved by the Commission **TBD**

DRAFT



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Kayla Lyon, Director

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Meeting Minutes

CALL TO ORDER

The meeting of the Natural Resource Commission (Commission or NRC) was called to order by Chairperson Marcus Branstad at 9:30am on July 13, 2023, via a combination of in-person and video/teleconference attendees.

COMMISSIONERS PRESENT

- Laura Foell
- Uriah Hansen
- Tammi Kircher (virtual)
- Tom Prickett
- KR Buck
- Marcus Branstad

COMMISSIONERS ABSENT

NONE

PUBLIC PARTICIPATION

Name	Address/County	Representing	Topic
Shane Blake	Bloomfield, Iowa	NA	Brass Bluegill Awardee
Jason Ohrt	Spillville, Iowa	NA	Brass Bluegill Awardee

APPROVAL OF AGENDA AND CONSENT AGENDA

The consent agenda included the following agenda items:

- Contract Amendment 1 – TrEst Ag Group, Inc.
- Contract Amendment 1 – Forum Communications Company
- Public Land Management Projects (10.1-10.3)

Motion was made by Laura Foell to approve the agenda and consent agenda as presented. Seconded by Uriah Hansen.

The Chairperson asked for the Commissioners to approve the agenda by saying aye. There were no nay votes. Motion passes.

AGENDA AND CONSENT AGENDA APPROVED AS PRESENTED

APPROVAL OF MINUTES

Motion was made by KR Buck to approve the July 13, 2023 NRC minutes as presented. Seconded by Laura Foell.

The Chairperson asked for the Commissioners to approve the agenda by saying aye. There were no nay votes. Motion passes.

APPROVED AS PRESENTED

DIRECTOR’S REMARKS

- Director Lyon introduced Tim Hall, the Department’s Hydrologic Resources Coordinator to discuss Iowa’s current drought conditions. Mr. Hall presented slides to the Commissioners and attendees explaining the current statewide drought conditions and rankings. He also talked about the drought outlook and what it means for Iowa.

DIVISION ADMINISTRATOR’S REMARKS

- Division Administrator Pete Hildreth started his remarks by highlighting the importance of public recreation areas and the dedicated staff that manage these areas. Mr. Hildreth thanked DNR staff, full-time and seasonal, for their dedication to improve the quality of life for the citizens of Iowa and those traveling here to enjoy Iowa’s natural resources, especially during these summer months as they are the busiest time for our staff.
- Mr. Hildreth noted that the central office is working hard at Executive Order 10 and continue to set meetings for public comment.
- Mr. Hildreth updated the Commissioners on the very successful spring season for the State Forest Nursery in Ames, Iowa. For the third year in a row, sales were over 1 million seedlings. Due to rising costs for supplies and labor, the price of seedlings this past season was increased by 10 cents per seedling.
- Mr. Hildreth talked about the Department’s cooperative agreement with Alliant Energy known as the Million Trees Initiative. The goal is to plant 1 million seedlings on state lands in Alliant service territories over a 10-year period. In Iowa, the goal is to plant 50,000 seedlings from the State Forest Nursery on State Forests, Parks and Wildlife Management Areas. Alliant covers the entire cost of the site preparation, seedlings, and plant labor. The agreement also includes a residential tree distribution component.
- Mr. Hildreth shared the Department’s outlook for the 2023 pheasant population.
- Mr. Hildreth finished his remarks discussing the current status of South Twin Lake and the benefits and difficulties caused by our current drought conditions on shallow lakes. The costs associated with deepening South Twin Lake would be very costly along with the risk of not achieving the goal. The Department has found the most cost effective and ecologically sound way to restore shallow lakes is to replace the outlet structure with one that gives the ability to draw the lakes down, simulate a drought, and then refill them. The Department will then stock the lake with native fish, which can at times produce decent fisheries.

DONATIONS

Pete Hildreth requested Commission approval of donations received by the Department from the following individuals and organizations: Kirk Strang; Dan Burkey; Marla Matthews; Jeffrey Giese; Sue Sawvel, Bellevue Rotary Club; Doug Harr; Chuck Hermann; Sharon Polifka; Kathy and Donald Brees; Sandy Stevens, Fairport Fish Hatchery Friends Group; Friends of the Ledges; Jill and Ed Higgins; and Sandra Gerlach, Maquoketa Caves Friends Group. Mr. Hildreth shared the background of the hand painted displays donated and explained the positive impact of the donation equipment for the Motus wildlife telemetry station.

Public Comments – None

Written Comments – None

<i>Motion was made by Laura Foell to approve the item as presented. Seconded by KR Buck.</i>
<i>The Chairperson asked for the Commissioners to approve the motion by saying aye. There were no nay votes. Motion passes.</i>

APPROVED AS PRESENTED

CHAPTER 106, “DEER HUNTING BY RESIDENTS” – FINAL RULE

Chris Ensminger requested Commission approval to adopt a Final rule to amend Chapter 106 “Deer Hunting by Residents.” Mr. Ensminger explained the basic intent of current rule and the final amendments, which add two counties and remove two counties from the list of counties available for general deer licenses.

Public Comments – None

Written Comments – None

<i>Motion was made by Uriah Hansen to approve the item as presented. Seconded by Tom Prickett.</i>
<i>The Chairperson asked for the Commissioners to approve the motion by saying aye. There were no nay votes. Motion passes.</i>

APPROVED AS PRESENTED

CONSTRUCTION – LARGE PROJECTS

Travis Baker requested Commission approval to maintain the pavement in Stone State Park, Woodbury County. This project consists of approximately 4.3 miles of HMA pavement preservation and maintenance by patching and seal coating the asphalt roads and place approximately 242 tons of crushed rock surfacing on access roads. Mr. Baker explained that updates to the parking lot come from a different funding source than the road repairs. He also mentioned that the Department keeps track of all estimates and bids approved.

Public Comments – None

Written Comments – None

<i>Motion was made by Laura Foell to approve the item as presented. Seconded by Uriah Hansen.</i>
<i>The Chairperson asked for the Commissioners to approve the motion by saying aye. There were no nay votes. Motion passes.</i>

APPROVED AS PRESENTED

GENERAL DISCUSSION

- There was a general discussion about the next NRC meeting. Commissioners unanimously decided to move the August meeting from August 9 to August 17 due to schedules.
- Each Commissioner shared their summer activities. They also expressed their deep appreciation to the Brass Bluegill awardees, Jason Ohrt and Shane Blake.

ADJOURN

<i>The Chairperson adjourned the Natural Resource Commission meeting at 11:01 am on July 13, 2023.</i>

ADJOURNED

**Iowa Department of Natural Resources
Natural Resource Commission**

Decision Item

5. Donations

The Natural Resource Commission is requested to approve the following donations:

Donation to:	Amount	Description	Donation Provided by:
Lacey-Keosauqua State Park	\$1,150	Remove old trail bridge, place rip rap, install new bridge	Dave Buford, Buford Dozing and Excavating
Nine Eagles State Park	\$804	Funds to improve the equestrian campground at Nine Eagles State Park	Duane Stewart, Ox Bow Company
Wildlife Diversity Program	\$60,000	Funds to be used as match for federal grants and to purchase supplies, both of which are to support the Motus system in Iowa	Musco Sports Lighting
Wildlife Diversity Program	\$60,000	Funds to be used as match for federal grants and to purchase supplies, both of which are to support the Motus system in Iowa.	Diane Crookham-Johnson
Fish and Wildlife Trust Fund	\$1,405	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Marilyn Umphrey
Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Ronald and Connie Robinson
Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Matthew and Judith Manning
Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Bernadine Livesay Barker
Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Beverly Boecker
Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Ralph Caves and Jessie Caves
Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Kathleen Humble
Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Marvin and Doris Strait
Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	James and Gwen Pedrick

Fish and Wildlife Trust Fund	\$25	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	R C Pedrick
Fish and Wildlife Trust Fund	\$20	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Kristi Meyers and Robert Meyers
Fish and Wildlife Trust Fund	\$20	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Karen Workman and Richard Workman
Fish and Wildlife Trust Fund	\$50	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	L. Begley and V. Begley
Fish and Wildlife Trust Fund	\$50	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Victoria Arnold
Fish and Wildlife Trust Fund	\$50	Donation to the Fish and Wildlife Trust Fund in memory of George Dean Umphrey	Jon and Deborah Finney
Wildlife Diversity	\$100	Donation to the Chickadee Checkoff fund to support Wildlife Diversity	Margaret Kemmerer
Fish and Wildlife Trust Fund	\$100	Donation to the Fish and Wildlife Trust Fund in memory of Steve Stotts	Therese and Tim Fitzgibbons Foundation
Parks and Forestry	\$25	Donation to support the Parks and Forestry Fund	Lindsay Plewka
Wildlife Diversity	\$50	Donation to support the Wildlife Diversity Fund	Anna Buckardt Thomas

Pete Hildreth, Division Administrator
Conservation and Recreation Division
NRC Meeting Date: August 17, 2023

**Department of Natural Resources
Natural Resource Commission**

Decision Item

6. Chapter 23 – Wildlife Habitat Promotion with Local Entities Program Grant Recommendations

The Commission is requested to approve the following grant recommendations pursuant to 571 IAC Chapter 23, Wildlife Habitat Promotion with Local Entities Program Grants.

Grant Purpose: In 1979, the Iowa General Assembly passed legislation requiring hunters and trappers to purchase a wildlife habitat stamp. All revenue derived from the sale of habitat stamps are used within the state of Iowa for acquisition of land, leasing of land, obtaining easements from willing sellers for use as wildlife habitats, and for the development and enhancement of wildlife lands and habitat areas. Beginning in 2019, in accordance with Iowa Code 483A.3, a portion of the revenues resulting from the increase in wildlife stamp fees are restricted from use on land acquisition projects. Grant applicants must provide at least 25% cost share for all projects. By Iowa Code, grant applications are reviewed twice a year.

Funding Source(s): Fish and Wildlife Trust Fund

Grant Funding Available: \$547,500 (\$182,500 restricted)

Summary of Selection Process: As directed by criteria under 571 IAC Chapter 23, the grant review and selection committee met on 7/19/23 to evaluate and score applications and provide recommendations for the grant awards.

Selection Committee Members: The review and selection committee consisted of five members:

- County Conservation Boards (4)
- DNR Staff (1)

Number of Applications Received: 5 (2 additions to existing/new Wildlife Areas and 3 habitat development projects)

Recommendations: The committee recommends offering full funding to the top ranked Wildlife Area (Ida County, Rich Smith Wildlife Habitat Area). The remaining \$17,857.29 was accepted by Des Moines County for their Shanstrom Addition to Hickory Bend project. The committee further recommends offering full funding for 1 of the habitat development projects (Black Hawk County, 20-acre prairie restoration at the Cedar Island Wildlife Area). The minimum score for eligible projects is 45, so the other two habitat development projects were not eligible to be funded. Any unused funds will carry forward for use in future projects.

Ranked by Score	Percent Match	Grant Applicant (County)	Project Description	Grant Amount Requested	Recommended Award
55.0	55%	Ida	Rich Smith Wildlife Habitat Area - This 104.8-acre tract borders the entire west and north property line of the Crawford Creek Recreation Area (CCRA). In the 1970's, CCRA's Master Plan incorporated this property as future expansion. The proposed WHA is currently prairie, providing abundant wildlife habitat and protecting the nearby public lake's watershed. The Rich Smith WHA is one of two places in the entire county where you can see habitat from ridgeline to ridgeline; the only other place is our other sizable public park 15 miles to the east-northeast.	\$347,142.71	\$347,142.71

47.6	48%	Des Moines	Shanstrom Addition to Hickory Bend – This 19.44-acre property abuts the existing 250-acre Hickory Bend Conservation Area. The Shanstrom addition is bottomland hardwoods bordering Flint Creek making the creek the geographic boundary of the property. The property supports abundant game populations and is one of the few remaining areas in the county known to harbor threatened and endangered bat species. Future management includes a forestry plan by the DNR District Forester to determine which forest management practices will be implemented over the years.	\$35,996.00	\$17,857.29
48.6	38%	Black Hawk	20-acre prairie restoration at the Cedar Island Wildlife Area – This project includes 20 acres of prairie restoration from existing brome on the east side of the 514 acres Cedar Island Wildlife Area. This habitat restoration will be a great addition to the existing habitat consisting of a mix of oak/prairie savanna and oxbow wetlands formed from the old river channel.	\$4,850.00	\$4,850.00
43.2	25%	Benton	Paha Donation Rehabilitation – In May 2023, a family donated 40-acres of timber including a 1-acre pond, on a Paha, to Benton County Conservation. This property is in need of timber stand improvement and general habitat work from the 2011 and 2020 derecho and will provide an excellent area to hunt and fish to the public once the work is completed.	\$41,878.00	-0-
42.2	32%	Polk	Chichaqua Bottoms Cropland Restoration - Polk County Conservation Board plans to restore 25 acres of former crop ground into a prairie-wetland complex. This restoration grant application seeks support to excavate wetlands and seed native prairie to enhance habitat for wildlife, provide water quality benefits, and give hunters and outdoor enthusiasts additional space to recreate in nature.	\$65,000.00	-0-
Total				\$494,866.71	\$369,850.00

Todd Bishop, Wildlife Bureau Chief
Conservation and Recreation Division
August 17, 2023

**Iowa Department of Natural Resources
Natural Resource Commission**

Decision Item

7. Contract Amendment-1 with Wiss, Janney, Elstner Associates, Inc

Commission approval is requested for a contract amendment with Wiss, Janney, Elstner Associates, Inc (WJE) of Northbrook, IL.

Amendment-1 Terms:

Amendment Amount: \$87,500.00

Amendment Dates: September 1, 2023 – April 24, 2025

Funding Source(s): Saving America’s Treasures Grant (National Parks Service) and RIFF Appropriations (SFY22 and SFY23)

Amendment Purpose: To provide the Department with construction drawings and specifications for bidding purposes and to support the Department through the bidding process for the rehabilitation of structures at the Fort Atkinson Historic District. WJE was awarded a contract through a competitive RFP process to research and author a Historic Structures Report on the property. The Historic Structures Report outlines specific rehabilitation to be completed to stabilize and maintain the integrity of the structures. Due to the specialized nature of the project, the Department determined that WJE is the most qualified and most intimately familiar with current conditions at Fort Atkinson to provide these services.

Original Contract Purpose: The Fort Atkinson Historic District in northeast Iowa contains the standing buildings, structural remains, and archaeological sites within the stockaded portion of a frontier-period U.S. military post. The post was constructed between 1840 and 1842 and occupied for military purposes until 1849. As early as 1900, the historic importance of the Fort Atkinson military post was recognized in the local area, and efforts were made to protect the property. By 1921, the State of Iowa acknowledged its importance, purchasing some acreage within the Fort and establishing it as a State Preserve. The property is managed by the DNR’s State Parks, Forests, and Preserves Bureau.

More than 50 years ago, the Fort was stabilized and an interpretive museum was established within the North Barracks building. Significant historical research has been conducted in the ensuing years, making it clear that the Fort is indeed an important historic property. Due to its specialized nature, relatively little physical preservation work has been undertaken in the last half-century resulting in accumulative deterioration over the years.

A general assessment shows there is significant structural stonework deterioration and issues with roof and ground surface drainage, the doors and window, and paint which are contributing to accelerated deterioration and pest infiltration. The four main structures are the North Barracks, Powder Magazine, Southwest Blockhouse, and the Northeast Blockhouses.

This contract will prepare a professional Historic Structures and Condition Assessment Report for the four standing structures. The report will include an assessment and repair recommendations. Tasks include:

- Architectural History
 - Physical description including site, buildings, major interior spaces, and site discussion.
 - Historical background and context
 - Building history including major repairs, modifications, additions, renovations, alterations, and restorations
 - Chronology of development and use including discussion of current uses
 - Discussion of proposed adaptive uses in consultation with site management
 - Evaluation of Significance
 - Physical recordation of building
 - Condition Assessment

- Laboratory Studies (optional with additional fee)
- Treatment and Work Recommendations
 - Discuss historic preservation objectives and how scope of work addresses these objectives.
 - Develop a scope of work consistent with prioritized recommendations for work.
 - Recommend any additional services necessary to provide information important for an informed restoration project.

Original Selection Process: The Department solicited proposals from targeted small businesses and also published a request of proposals (RFP) on the Department of Administrative Services website. Criteria reviewed for this work included demonstrated experience working on similar projects, qualifications of personnel including meeting the Secretary of Interior’s Historic Preservation Professional Qualification Standards, information stating how the report will be developed using both the Department of the Interior National Park Service 43 Preservation Briefs for developing the Historic Structures Report and the Condition Assessment and Historic Structure Reports & Preservation Plans: A Preparation Guide – Second Edition, and the proposed Project Schedule and Work Plan. Proposals were due March 7, 2022. The Department reviewed 5 proposals and recommended Wiss, Janney, Elstner Associates, Inc to receive the contract.

Bidder’s name	Location	Technical Proposal	Cost Proposal	Total Score	Rank	Bid Amount
Wiss Janney Elstner Associates, Inc.	Northbrook, IL	555	211	766	1	\$85,000*
Insite Consulting Architects LLC	Madison, WI	530	178	708	2	\$96,240
Martin Gardner Architecture, PC	Marion, IA	450	193	643	3	\$75,400
RDG Planning & Design, Inc.	Des Moines, IA	405	165	570	4	\$79,368
OPN Inc.	Cedar Rapids, IA	400	120	520	5	\$107,955

**If optional material studies are desired, there are additional laboratory fees. These potential fees are included in the not-to-exceed total.*

Contract History:

Original Contract Terms: Amount to not exceed \$100,000.00; Timeframe: April 25, 2022, through April 24, 2025; Purpose: Historic Structures Report and Condition Assessment on Fort Atkinson Historic District

Amendment-1 Terms: Amount \$85,700.00; Timeframe: September 1, 2023 through April 24, 2025; Purpose: Repair and Rehabilitation Documents and Bid Period Services

Sherry Arntzen, State Parks, Forests, and Preserves Bureau Chief
 Conservation and Recreation Division
 NRC Meeting Date: August 17, 2023

**Iowa Department of Natural Resources
Natural Resource Commission**

Decision Item (* indicates proposed consent item)

***8. Public Land Management Projects**

8.1 Chapter 17 lease – Clayton County – Viserion Grain, LLC

The Natural Resource Commission is requested to approve the renewal of Chapter 17 lease 18-R with Viserion Grain, LLC of Boulder, Colorado.

Location: The leased area is described as a portion of the bed of the Mississippi River including approximately 800 feet of frontage by 140 feet of depth located at Mississippi River Mile 633.3 in Clayton County, Iowa.

Site Purpose: The site is used as an area for barge fleeting and unloading of grain.

Lease History: The location has been under a barge fleeting lease since 1983. A Public Notice was printed in a local newspaper and no comments were received.

Lease Fee and Term: The annual fee is \$6,132.00 with a condition that the fee may be adjusted to comply with adopted administrative rule changes that affect lease fees. The term of the lease will be five years.

8.2 28-E Management Agreement - South Fork Mill Creek Mitigation Site – Iowa Department of Transportation - Jackson County

The Natural Resource Commission is requested to approve a 28E Agreement between the Department of Transportation and the Department of Natural Resources for a stream restoration project on Big Mill Creek WMA.

Location: 8.35-acre area located within Big Mill Creek WMA along a segment of approximately 1,025 feet of the South Fork Mill Creek.

Site Purpose: This stream restoration will serve as a mitigation site for DOT projects in Delaware and Dubuque County. The restoration will include constructing riparian benches to restore the lost floodplain connection, two rock riffle/grade control structures, hard stone-toe streambank stabilization and buffer seeding enhancements.

Management History: This site is managed by the Iowa DNR

8.3 Contract Amendment- 3 with Sunderman Farm Management Co.

Commission approval is requested for a service contract amendment with Sunderman Farm Management Co. of Fort Dodge, Iowa.

Amendment--3

Terms:

Amendment Amount: \$ 11,000

Amendment Dates: October 11, 2023 to October 10, 2024

Funding Source(s): Brushy Creek State Recreation Area operations budget

Amendment Purpose: Sunderman Farm Management Co assists the Brushy Creek State Recreation Area with the administration of 1,100 acres of habitat leases on behalf of the Iowa DNR. This amendment seeks to renew this contract for one additional year. This contract allows for improved efficiency of the agricultural lease system and reduces operating expense of the wildlife habitat management.

Original Contract Purpose: The purpose of the habitat management lease program is to enhance habitat for wildlife in the state of Iowa, thereby providing recreational opportunities to the public. Utilization of a habitat lease provides practices which are essential to successful wildlife habitat and vegetation management and reduces associated operating expenses. In 1987 the DNR began a pilot project at Loess Hills Forest to explore the use of private farm managers to assist foresters and wildlife biologists with the administration of the agricultural leasing system to improve efficiency of the system and to reduce the operating expense of the wildlife habitat management.

Original Selection Process: The RFP process was used to select the contractor.

Contract History:

Original Contract Terms: Amount \$ 33,000; Timeframe: 10/11/2018 to 10/10/2021

Amendment 1 Terms: Amount \$11,000; Timeframe: 10/11/2021-10/10/2022; Purpose: Extend the term of the original contract by one year.

Amendment 2 Terms: Amount \$11,000; Timeframe: 10/11/2022-10/10/2023; Purpose: Extend the term of the original contract by one year

Travis Baker, Land & Waters Bureau Chief
Conservation and Recreation Division
NRC Meeting Date: August 17, 2023

**Iowa Department of Natural Resources
Natural Resource Commission**

Decision Item

9. Public Land Acquisition Projects

9.1 Otter Creek, Fayette County – Medberry Farms

The Natural Resource Commission's approval is requested to purchase an angler access conservation easement for the purpose of public fishing.

Seller: Medberry Farms, Inc.

Acreage: 21.25 acres

DNR Purchase Price: \$53,132.50 (\$2,500/Ac)

Property Description: Otter Creek is a popular coldwater fishery near West Union in Fayette County, Iowa. Beginning west of West Union, Otter Creek flows through Echo Valley State Park before it joins the Turkey River near Elgin. Otter Creek is the 24th-most popular trout stream in Iowa, likely due to the diverse fishery of catchable-stocked Rainbow Trout and an expanding population of wild Brown Trout. Access to the stream is provided by public lands as well as other publicly accessible angler access points.

Purpose: The proposed angler access easement will provide public access for fishing along 1.43 miles of coldwater stream corridor and lies adjacent to an existing 1.7 mile angler access easement. Otter Creek trout populations have historically been managed with annual catchable-sized Rainbow Trout stockings. The last stocking of fingerling Brown Trout in Otter Creek occurred in 2017. Sampling upstream in 2020 found Brown Trout over 16" in total length, with multiple year classes present. Follow-up sampling is planned to evaluate Brown Trout natural reproduction throughout the watershed. Otter Creek is currently listed as a Category 1 naturally-reproducing stream for Brown Trout. Moving forward, the DNR will manage for wild Brown Trout with no additional fingerling stockings planned. The Rainbow Trout fishery in Otter Creek is dependent on stocking, and catchable-sized stockings are scheduled to continue. This easement not only will allow public access for fishing, but also for DNR to access for fish stocking, fish sampling, riparian corridor improvements, and fish habitat improvements.

This Property will continue to be owned in fee title by Medberry Farms, Inc. The permanent angler access conservation easement will be monitored by the Fisheries Bureau staff.

DNR Property Manager: Fisheries Bureau

Funding Source(s): Fish Restitution Fund

Incidental Costs: Incidental closing costs will be the responsibility of the Department.

9.2 Perkins Marsh Wildlife Management Area, Palo Alto County – Herke Revocable Trust

The Natural Resource Commission's approval is requested to purchase a tract of land located in Palo Alto County adjacent Perkins Marsh Wildlife Management Area (WMA).

Seller: Richard K. Herke Revocable Trust

Acreage: 4 acres

DNR Purchase Price: \$39,000

Appraised Value: \$56,000

Property Description: This property is located eight (8) miles northwest of Emmetsburg in northwestern Palo Alto County. The near level to gently sloping L-shaped tract consists of 2.9 acres of land enrolled in CRP through 2031, with remainder in cropland. There are no building improvements. Access is provided through adjacent Perkins Marsh.

Purpose: This acquisition will serve as a saturation buffer (130 ft.) as part of the planned restoration of Perkins Marsh wetland basin. The cropland component will be seeded to a prairie seed mix to provide for valuable nesting habitat, and restoration for Blanding's turtles. The property will provide public access to hunting and other outdoor recreation opportunities.

DNR Property Manager: Wildlife Bureau

Funding Source(s): Wildlife Habitat Stamp

Incidental Costs: Incidental closing costs will be the responsibility of the Department. The property will remain on the tax rolls.

9.3 Fish Farm Mounds Wildlife Management Area, Allamakee County – Van Brocklin

The Natural Resource Commission's approval is requested to purchase an easement for permanent access across a tract of land located in Allamakee County adjacent Fish Farm Mounds Wildlife Management Area (WMA).

Seller: Robert Van Brocklin

Acreage: 0.55 acres

DNR Purchase Price: \$1,000

Property Description: This property is located five (5) miles north of Lansing in northeastern Allamakee County. The 30-foot wide by 800-foot long corridor is a moderate to steep access extending west to northwest from Iowa Highway No. 26 to the current east boundary of Fish Farm Mounds. The property has no building improvements.

Purpose: This permanent access easement will be restricted for use by State of Iowa/Iowa DNR employees or DNR contractors for the purposes of maintenance and management only. The easement will allow the Wildlife Bureau staff to better manage the WMA.

DNR Property Manager: Wildlife Bureau

Funding Source(s): Wildlife Habitat Stamp

Incidental Costs: Incidental closing costs will be the responsibility of the Department. The property will remain on the tax rolls.

9.4 Big Marsh Wildlife Management Area, Butler County – Steven and Diane Winkey

The Natural Resource Commission's approval is requested to purchase a tract of land located in Butler County adjacent Big Marsh Wildlife Management Area (WMA).

Seller: Steven and Diane Winkey

Acreage: 202.63 acres

DNR Purchase Price: \$314,100

Appraised Value: \$314,100

Property Description: This property is located 3.5 mile south and 3 miles west of Allison Iowa in central Butler County. The near level property lies in the flood plain of the west fork of the Cedar River. Two drainage ditches converge on the west portion of the property and exit on the SE side of the property. A WRP easement was conveyed to the USA in 2010. The property has wetlands on the property that were created through the WRP program. The property has a quality native grass seeding.

Purpose: This acquisition is a vital piece to potentially restore a 360-acre shallow marsh that was once on the majority of the property. The property would provide quality pheasant, waterfowl, and grassland bird nesting habitat. There are known Wood turtles (State Endangered) within one mile of the property and Blanding turtles (State Threatened) are known on the adjacent DNR Lands.

DNR Property Manager: Wildlife Bureau

Funding Source(s): \$100,000 NAWCA Iowa Des Moines Lobe II, \$214,100 Wildlife Habitat Stamp

Incidental Costs: Incidental closing costs will be the responsibility of the Department.

9.5 Trout Run WMA, Winneshiek County – Kelly Bachelder

The Natural Resource Commission's approval is requested to approve a land exchange in Winneshiek County.

Seller: Kelly Bachelder

Acreage: 0.318 acres to DNR

0.06 acres to 3chicsrental, L.L.C Kelly Bachelder

Exchange Price: \$0

Property Description: These properties are located on the northeast side of the Trout Run WMA. The property being transferred to the state currently has the main channel of Trout Run Creek running through it. Historically this parcel had a small offshoot of Trout Run Creek running through it but after recent floods, has become the main channel of Trout run. Trout Run is the 3rd most popular trout stream in Iowa. The property being transferred to 3chicsrental, L.L.C. has an encroachment of a storage unit (owned by the L.L.C) that Mr. Bachelder has an interest in.

Purpose: This land exchange will resolve an encroachment associated with a storage building on 0.06 acres, while also ensuring access to Trout Run Creek's new main channel.

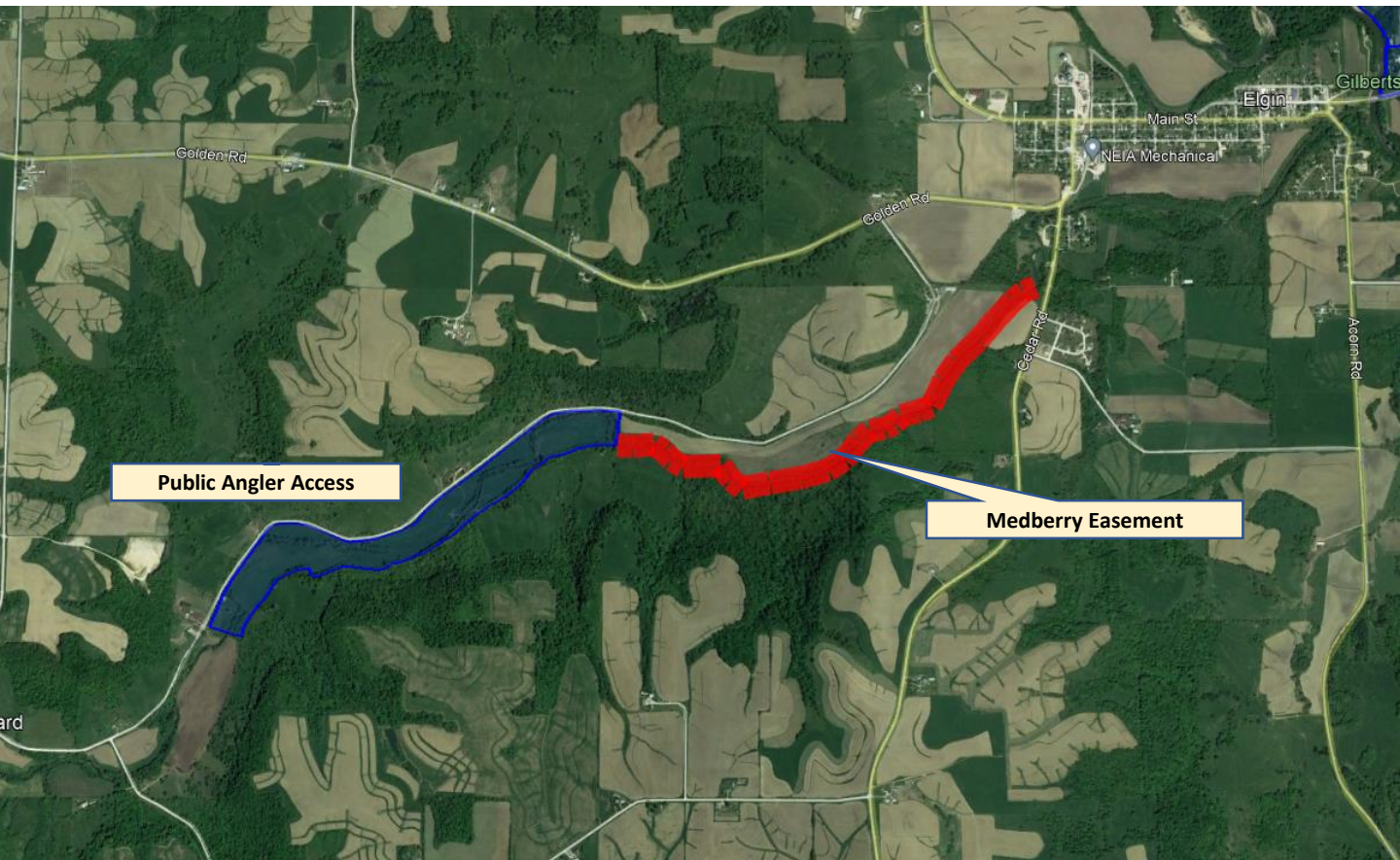
DNR Property Manager: Wildlife Bureau

Incidental Costs: Survey and incidental closing costs will be split between both parties.

Travis Baker, Land & Waters Bureau Chief

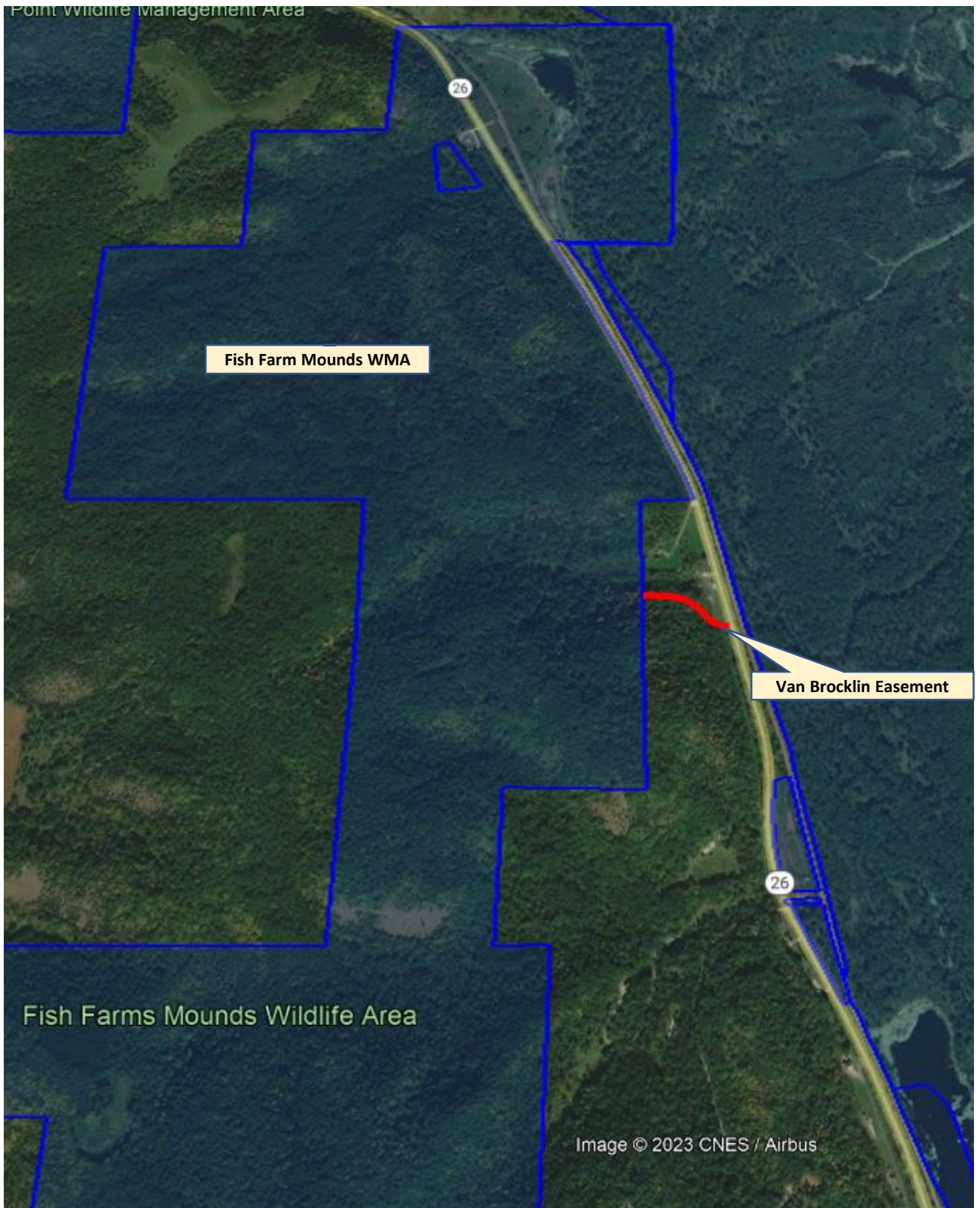
Conservation and Recreation Division

NRC Meeting Date: August 17, 2023

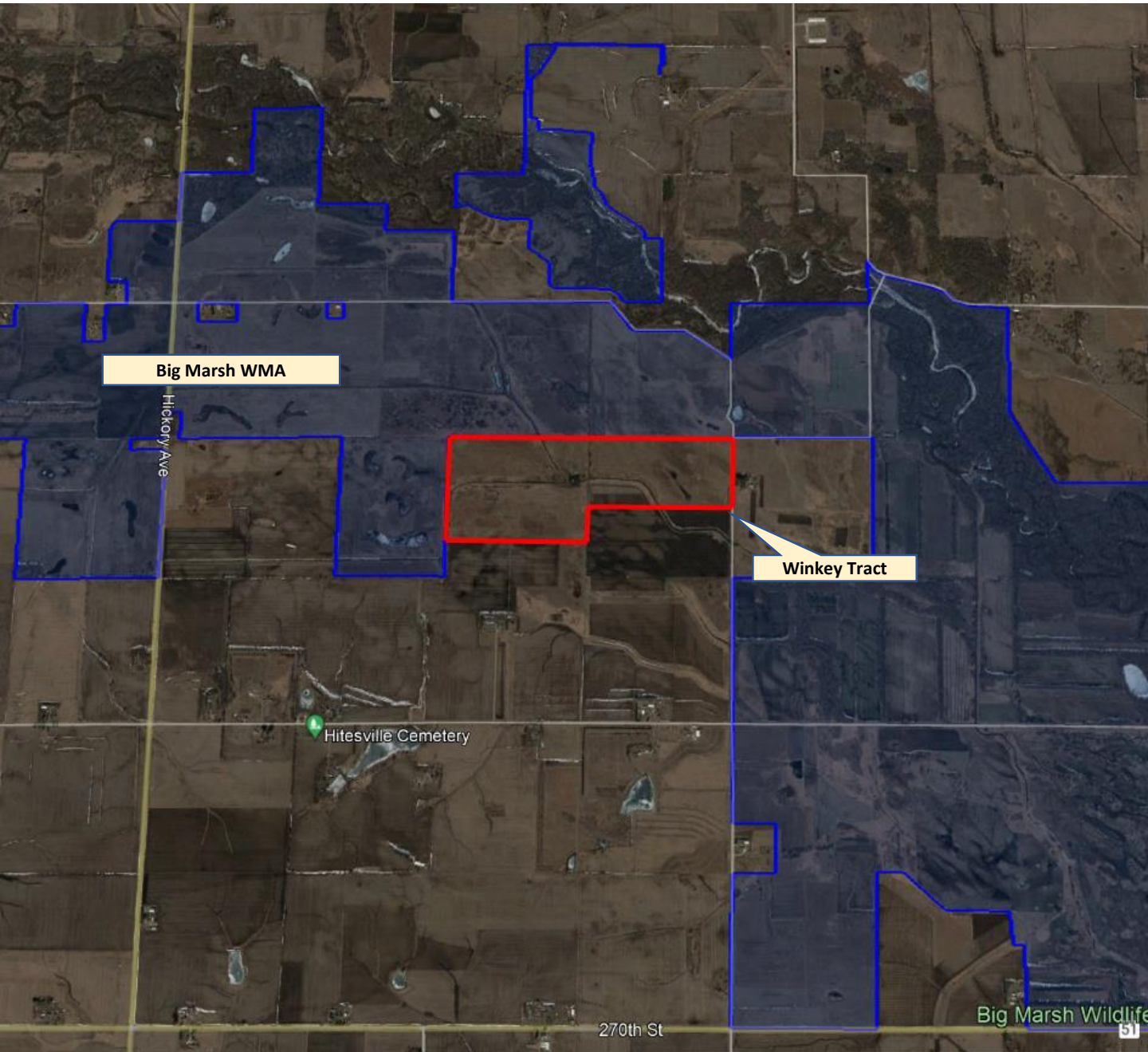


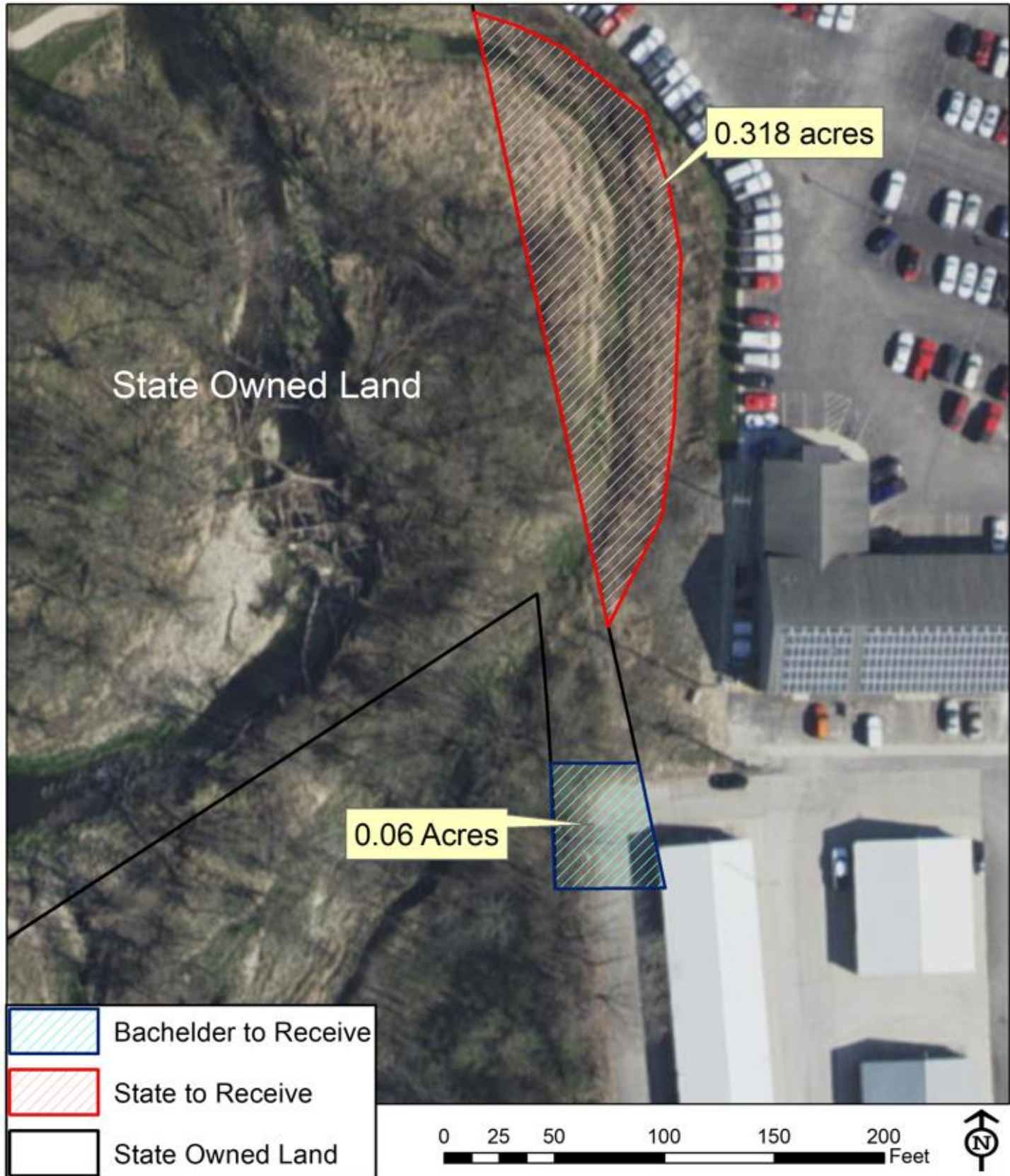
Realty Services / Perkins Marsh WMA / Palo Alto Co. / Herke





Realty Services / Big Marsh WMA / Butler Co. / Winkey





Iowa Department of Natural Resources
Natural Resource Commission

10.

Decision Item

Construction Item

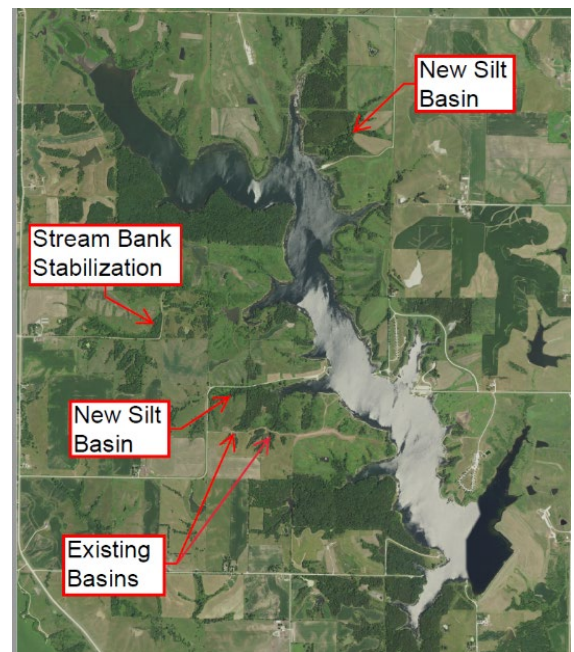
10.1 Three Mile Lake, Water Quality Improvements and Fish Habitat – Union County

The Department requests Commission approval of the following construction project:

Project Summary: Three Mile Lake was constructed in 1995 for the purpose of drinking water, flood control, and recreation. This publicly owned lake consists of 810 acres of open water with an average depth of 17 feet, and a maximum depth of 56 feet. At the lake, Union County Conservation Board maintains an 80-site campground, a reservable lodge, and eight all-season cabins. Boating and waterskiing is allowed in the lower portion of the lake.

With a 26:1 watershed to lake area ratio and steep slopes with highly erodible soils in the watershed, sedimentation in the lake and high turbidity levels are of concern. While the lake has good water quality relative to many other Iowa lakes, the Lake Restoration Program began meeting with project partners in 2015 to discuss ways to preserve its water quality and make needed infrastructure improvements to the lake, as well as continue watershed improvements to minimize sediment and nutrients being delivered to the lake.

This project is focused on improving water quality and underwater habitat. Approximately 1.9 miles of shoreline will be stabilized with rock armoring. The existing in-lake silt basin dike will be raised approximately three feet to regain capacity lost to sedimentation. An existing sediment pond will be cleaned out to restore sediment capacity. Two new sediment basins will be constructed. An existing fishing jetty will be extended to protect the adjacent beach from wave-action erosion. Three other existing jetties will have fish habitat benches installed. 55 rock fish habitat features will be placed around the lake. Finally, approximately 1,200 feet of degraded streambank will be stabilized by re-establishing flood plain benches, rock armoring supplemented with the planting of live stakes, installation of rock riffles, and the installation of stream bottom vanes constructed from salvaged logs. The lake will be partially lowered to facilitate shoreline armoring and habitat placement, however boat access will be maintained at the main boat ramp.



Engineering Project #: 19-04-88-02

Cost Estimate: \$3,600,000.00

Operating Bureau: Land and Waters

Funding Source: 52% Lake Restoration Program; 16% Iowa Finance Authority - Water Infrastructure Grant; 16% Marine Fuel Tax; 8% National Fish Habitat Partnership; 7% REAP-OS; 1% Reservoir Fisheries Habitat Partnership Grant

Bid Letting Date: 07/20/2023

Construction Completion Date: 03/15/2025

Number of Bids Received: 8

Bidders

JNC Construction, LLC	Clearfield, IA	\$3,156,025.59
Keller Excavating, Inc.	Boone, IA	\$3,254,422.94
JB Holland Construction, Inc.	Decorah, IA	\$3,384,879.52
RW Excavating Solutions, LC	Prairie City, IA	\$3,480,232.30

Leick Constructions, Inc.	Glenwood, IA	\$3,749,947.71
Peterson Contractors, Inc.	Reinbeck, IA	\$3,780,083.42
Rachel Contracting, LLC	St. Michael, MN	\$4,678,396.54
C J Moyna & Sons, LLC	Elkader, IA	\$5,207,799.45

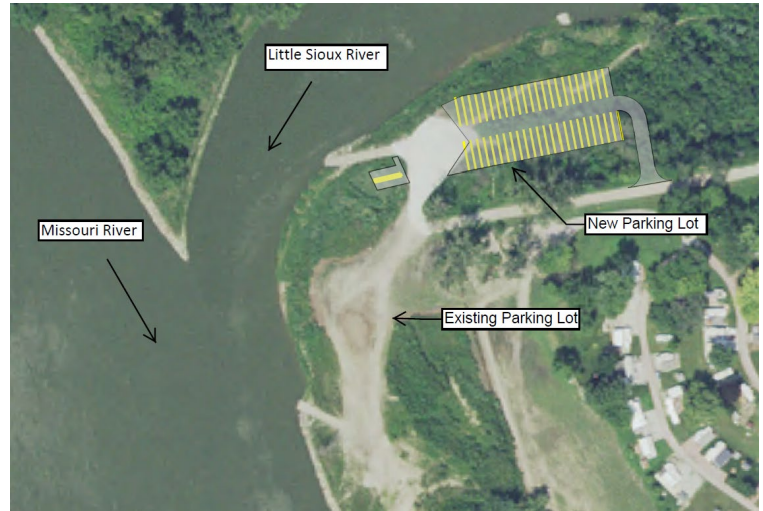
Upon Engineering’s review of bids, DNR recommends awarding the contract to JNC Construction, LLC.

10.2 Little Sioux Access, Parking Lot – Harrison County

The Department requests Commission approval of the following construction project:

Project Summary: Little Sioux Delta is a 15-acre parcel of land located at the confluence of the Little Sioux River and the Missouri River, approximately 16 miles south of Onawa. Existing facilities consist of two boat ramps and a parking lot.

The existing gravel parking lot is located along the Missouri River, and is often inundated with silt during flood conditions. This project will relocate the parking lot to the east, which will reduce silt loading during future flood events. The new parking lot will use gravel surfacing, and will have capacity for approximately 48 cars with trailers. To meet ADA compliance requirements, two of the 48 parking spaces will be paved in concrete. Flooding caused by severe storms in 2019 has authorized FEMA funding for this project.



Engineering Project #: 23-04-43-01

Cost Estimate: \$115,000.00

Operating Bureau: Wildlife

Funding Source: 100% FEMA

Bid Letting Date: 07/20/2023

Construction Completion Date: 3/24/2024

Number of Bids Received: 6

Bidders

IA Builders Dirtworks, LLC	Albia, IA	\$102,696.00
Carley Construction, LLC	Council Bluffs, IA	\$116,114.00
Johnston Excavating, LLC	Sloan, IA	\$138,092.74
Armodus, LLC	Mondamin, IA	\$143,711.00
L.A. Carlson Contracting, Inc.	Hinton, IA	\$149,489.40
Pruett Grading, LLC	Logan, IA	\$171,858.00

Upon Engineering’s review of bids, DNR recommends awarding the contract to IA Builders Dirtworks, LLC.

10.3 Maquoketa Caves State Park, Wastewater Treatment – Jackson County

The Department requests Commission approval of the following construction project:

Project Summary: Maquoketa Caves State Park is located in Jackson County, northwest of Maquoketa, Iowa. The 370-acre park was opened to the public in the 1930's when the CCC built a lodge and walkways through the cave system. In addition to the caves and the lodge, the park has hiking trails, a museum, two picnic shelters, and a modern campground.

The wastewater treatment facility that services Maquoketa Caves State Park consists of a two-cell controlled discharge lagoon. A recent inspection showed that both cells have damaged liners. As an emergency measure, patches were added to the upper cell prior to opening the park in the Spring of 2023. The lower cell has visible holes as well as a large bubble in the middle which reduces capacity. Both liners are more than 20 years old and need to be replaced. Also, the sludge buildup in the bottom of the lagoons is due to be cleaned out.

In this project the sludge in the lagoons will be removed and land applied. Both liners will be removed and replaced with new 60 mil. Thick HDPE liners.

Engineering Project #: 24-06-49-01

Cost Estimate: \$203,000

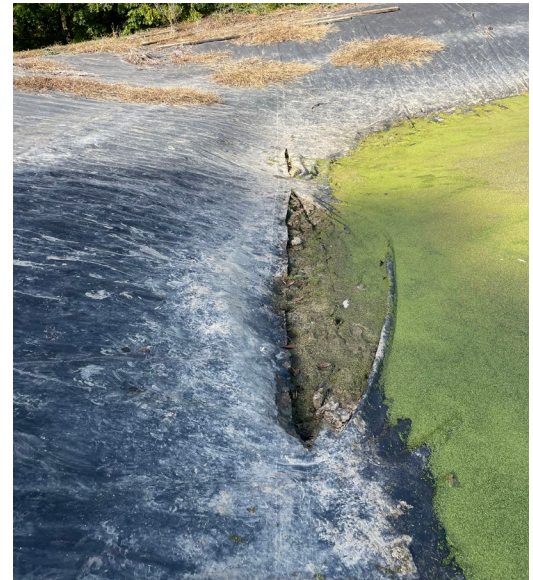
Operating Bureau: Parks

Funding Source: Parks Infrastructure

Bid Letting Date: 07/20/2023

Construction Completion Date: 04/30/2024

Number of Bids Received: 4



Bidders

Connolly Construction, Inc.	Cascade, IA	\$181,750.00
MZ Construction, Inc.	Livingston, WI	\$247,680.00
Miller Trucking & Excavating Co.	Silvis, IL	\$269,100.00
Connolly Excavating, Inc.	Cascade, IA	\$290,995.00

Upon Engineering's review of bids, DNR recommends awarding the contract to Connolly Construction Inc.

10.4 DLS Shooting Range, Range Renovation – Scott County, IA

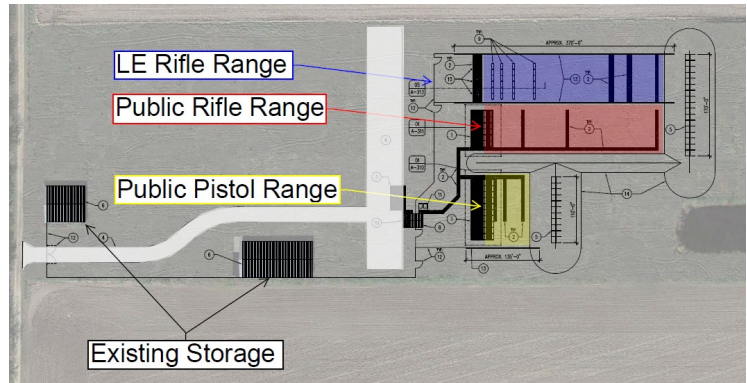
The Department requests Commission approval of the following construction project:

Project Summary: The DLS Shooting Range was originally constructed in 1970 as a private trap and skeet club. The facility was donated to the State in 2016 to become a public shooting range. Existing facilities include a clubhouse, various storage sheds, skeet range and trap range.

The current DLS Shooting Range does not have facilities for pistol and rifle shooting and its current skeet and trap ranges are in poor condition. This project will remove the clubhouse, dilapidated storage sheds, and clear the ground of all skeet and trap facilities. Two existing storage buildings shall remain on site. New earthen berms, concrete sidewalls, and steel shooting structures will be constructed to accommodate pistol and rifle shooting. There will be a small storage garage built on site. A new gravel drive and parking lot will provide access, as well as new sidewalks throughout the range.



Engineering Project #: 23-06-82-01
Cost Estimate: \$1,600,000.00
Operating Bureau: Communication, Outreach & Marketing Bureau
Funding Source: 60% - Federal Grant, 32% - Scott County Law Enforcement, 8% - Fish & Wildlife Trust
Bid Letting Date: 07/20/2023
Construction Completion Date: 06/14/2024
Number of Bids Received: 9



Bidders

H&H Construction & Development	Miles, IA	\$1,457,424.90
Clinton Engineering Co. Inc.	Clinton, IA	\$1,652,140.72
Vieco Development & Construction	St. Joseph, MO	\$1,746,252.00
Bill Bruce Builders Inc.	Eldridge, IA	\$1,897,575.22
Tricon General Construction Inc.	Dubuque, IA	\$1,944,000.00
Sheets Design Build LLC	Maquoketa, IA	\$2,092,961.96
Valley Construction Co.	Rock Island, IL	\$2,283,715.80
Miller Trucking & Excavating Co.	Silvis, IL	\$2,340,235.50
Woodruff Construction Inc.	Tiffin, IA	\$2,367,105.04

Upon Engineering's review of bids, DNR recommends awarding the contract to H & H Construction.

Travis Baker, Land & Waters Bureau Chief
 Conservation and Recreation Division
 August 17, 2023

**Iowa Department of Natural Resources
Natural Resource Commission**

Decision Item

11. Contract with Shive-Hattery

Commission approval is requested for a contract with Shive-Hattery, of West Des Moines, IA.

Contract Terms

Amount: Not to Exceed \$339,100

Dates: September 9, 2023 to May 15, 2025

Funding Source(s): Infrastructure Fund (100%)

Contract Purpose:

Beeds Lake State Park, a CCC era park, is a popular camping area with many amenities including boating, fishing and hiking and is located northwest of Hampton, Iowa.

The Beeds Lake State Park wastewater treatment facility consists of a 0.5-acre 3 cell aerated lagoon. The facility treats waste from the 140 campsites, a lodge restroom and a 39-house subdivision located on the north side of the lake. The facility is permitted to treat an Average Wet Weather (AWW) of 0.0330 million gallons per day.

The drinking water for the park is obtained from a well and can be disinfected in an existing chlorine disinfection building for the park use.

With ever tightening standards for wastewater discharge and the close proximity of the city of Hampton, which has ample capacity to receive additional loads, DNR would like to abandon the existing lagoon system, construct a wastewater forcemain, and transport the wastewater to the city plant for treatment. The DNR also wants to connect to the city water and demolish existing well at the park. In our initial assessment both the watermain and forcemain will be approximately 4 miles long (each). The wastewater conveyance system is expected to consist of a main lift station with auxiliary power and some kind of wastewater stabilization system. On the water side, a new watermain will be built from the city to outside of the park and will then be split into two for the subdivision and the park. For the park use, the water will pass through the existing disinfection system and re-pressurized (if needed) with the help of a small booster pump.

As a first step, the DNR is seeking engineering services from a qualified consulting firm for the design and construction of a watermain and a sewer lift station with a forcemain that will connect the Beeds Lake State park and adjacent private subdivision to the city of Hampton. Work also includes demolition of the park's existing wastewater treatment facility.

Selection Process Summary: The DNR conducted a comprehensive, fair, and impartial evaluation of proposals received in response to this RFP. The DNR used an evaluation committee to review and evaluate the technical proposals and cost proposals as described in the RFP. The evaluation committee is recommending an award based on the results of these evaluations to the NRC.

Vendor	Vendor Location	Cost	Rank	Score
Shive-Hattery, Inc.	West Des Moines, IA	\$339,100.00	1	82
MSA Professional Services	Des Moines, IA	\$368,100.00	2	68
Clapsaddle-Garber Associates	Ames, IA	\$231,010.00	3	56

Proposal Due Date: July 20, 2023

of Proposals Received: 3

Recommendation: Shive-Hattery

Travis Baker, Land and Waters Bureau Chief
Conservation and Recreation Division
NRC Meeting Date: August 17, 2023

Iowa Department of Natural Resources
Natural Resource Commission

Decision Item

12. Contract with the City of Creston, Iowa (McKinley Lake)

Commission approval is requested for a contract with the City of Creston, Iowa (Union County).

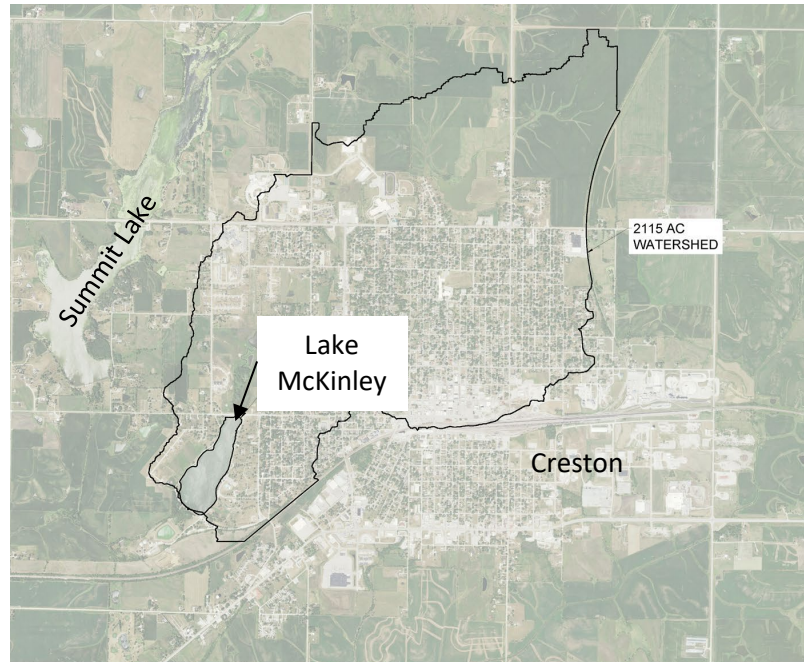
Contract Terms:

Amount: Not to exceed \$193,900.00

Dates: August 17, 2023 to June 30, 2026

Funding Source(s): Lake Restoration Program

Background: McKinley Lake (20-acres) is a small publicly owned lake in the City of Creston. The lake is a central feature of McKinley Park, which includes a variety of recreational opportunities, including a pool, natural areas and wildlife habitats. The lake was constructed in 1874 and has been a popular local destination for recreation for over 100 years. The lake was originally constructed as a water supply lake for industrial use. In winter, ice was harvested from the lake for use throughout the region. The City purchased the lake in 1901. The lake was drained in the early 1900s when Summit Lake was created, but the lake was re-opened to the public and re-filled in 1919. While the history of the lake and park endures today, water quality has declined, and the lake today suffers from excess sedimentation, high concentrations of nutrients and frequent algae blooms, all of which limit enjoyment of the lake.



The City of Creston began working to improve McKinley Lake and park in the 2000s, first investing in a comprehensive park plan and later working to improve conditions in the watershed. Over the past 15 years, the city has completed a multi-faceted watershed restoration effort on Hurley Creek (the primary tributary to the lake). As a part of the watershed project over \$370,000 was invested in riparian buffers, stream stabilization, livestock exclusion from the stream, and sediment ponds and wetlands.

DNR and other project partners began meeting with the City to address water quality concerns and recreational opportunities in 2019, forming a small working group to address concerns and formulating a plan to improve the lake. The City then hired FYRA Engineering (now HEI) to complete a preliminary plan for restoration. In 2021, Creston completed a bond initiative to improve the lake and park, and in 2022, the city secured an easement for dredge spoils, allowing the project to move forward.

Contract Purpose: The purpose of this cooperative agreement is to work with the City of Creston to hire an engineering consultant to design, permit, and lead bidding and construction oversight of the restoration project at McKinley Lake. This agreement will include all of the necessary engineering design and permitting up to bid letting for the project.

Budget:

DNR Contribution (50%):	Not to exceed \$193,900.00
City of Creston Contribution (50%):	Not to exceed \$193,900.00
Total Cost:	Not to exceed \$387,800.00

Anticipated Future Work: Future work will include construction of the in-lake restoration, including targeted dredging, shoreline stabilization, installation of fish habitat, improved recreational access opportunities and potentially include upgrades to the

lake's outlet structure and several bioswales near the park to capture sediment and nutrients from the watershed. Future work is currently estimated to cost \$3.8 million.

Selection Process Summary: This contract is authorized by 11 Iowa Administrative Code section 118.4.

Travis Baker, Land and Waters Bureau Chief
Conservation and Recreation Division
NRC Meeting Date: August 17, 2023

Iowa Department of Natural Resources
Natural Resource Commission

Decision Item

13. Contract with the City of Grinnell, Iowa (Arbor Lake and Lake Nyanza)

Commission approval is requested for a contract with the City of Grinnell, Iowa (Poweshiek County).

Contract Terms:

Amount: Not to exceed \$64,150.00

Dates: August 17, 2023 to June 30, 2024

Funding Source(s): Lake Restoration Program

Background: The Arbor Lake and Lake Nyanza complex (totaling 27 acres) are two linked impoundments that anchor popular city parks in Grinnell, Iowa. Lake Nyanza drains directly into Arbor Lake; therefore, any improvements made to Lake Nyanza will also benefit Arbor Lake. Both lakes are popular local destinations, supporting a variety of recreational uses.

Arbor Lake is currently on the State of Iowa's impaired waters list for algae (high chlorophyll-a concentrations), which has been attributed to high phosphorus levels in the lake and sedimentation. The Iowa DNR's Watershed Improvement Section produced a Total Maximum Daily Load (TMDL) Report in 2003 to identify sources of pollution to Arbor Lake and suggested ways of improving water quality with the goal of removing the impairment at the Lake. The TMDL cited that phosphorus being transported to the lake from the watershed needed to be reduced by 56% to reach water quality goals. Additionally, sedimentation in the last 20 years alone has resulted in the max depth of the lake going from 20 feet in 2003 to 16.5 feet in 2022 and losing a foot of mean depth (going from 7 feet in 2003 to 5.9 feet in 2022).

DNR and other project partners began meeting with the City to address water quality concerns and recreational opportunities at both lakes in 2021, forming a small working group to address concerns and start formulating a plan to improve one or both lakes. Project partners included city staff, DNR watershed improvement and lake restoration staff, IDALS, and several interested citizens from the community. In 2022, the City worked hired FYRA Engineering (now HEI) to complete a water quality monitoring study at both Arbor Lake and Lake Nyanza. Prior to 2022, no known water quality data for Lake Nyanza were collected. Monitoring results showed high concentrations of total phosphorus in both lakes that fuel frequent summer algae blooms. Additionally, both lakes have accumulated about 50,000 CY of soft sediment each, reducing depth and function in each of the lakes.

Using the preliminary information collected as a part of the monitoring study, the City and DNR intend to move forward with a full diagnostic and feasibility study for both lakes. Information from this study will be used to develop a comprehensive restoration plan for both systems to improve water quality and recreational opportunities.

Contract Purpose: The purpose of this cooperative agreement is to work with the City of Grinnell to retain a consultant to conduct a Diagnostic and Feasibility Study for the restoration of Arbor Lake and Lake Nyanza. The study will include a lake and watershed water quality response model, BMP prioritization, conceptual in-lake restoration plan, and cost estimates to help project partners develop an actionable plan for improving both lakes.

Budget:

DNR Contribution (50%):	Not to exceed \$64,150.00
<u>City of Grinnell Contribution (50%):</u>	<u>Not to exceed \$64,150.00</u>
Total Cost:	Not to exceed \$128,300.00

Anticipated Future Work: Future work will include engineering design and construction of watershed BMPs and in-lake restoration strategies that are designed to improve water quality and recreational opportunities in Arbor Lake and Lake Nyanza.

Selection Process Summary: This contract is authorized by 11 Iowa Administrative Code section 118.4.

Travis Baker, Land and Waters Bureau Chief
Conservation and Recreation Division
NRC Meeting Date: August 17, 2023