

**Project Title: North Dakota Envirothon**  
**Project Sponsor: North Dakota Envirothon**  
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**Bismarck, ND 58503**  
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**Watershed: Statewide**

<u>PROJECT TYPES</u>		<u>WATERBODY TYPES</u>		<u>NPS CATEGORY</u>	
<input type="checkbox"/>	STAFFING & SUPPORT	<input type="checkbox"/>	GROUNDWATER	<input type="checkbox"/>	AGRICULTURE
<input type="checkbox"/>	WATERSHED	<input type="checkbox"/>	LAKES/RESERVOIRS	<input type="checkbox"/>	URBAN RUNOFF
<input checked="" type="checkbox"/>	I&E	<input type="checkbox"/>	STREAMS	<input type="checkbox"/>	CONSTRUCTION
<input type="checkbox"/>	OTHER	<input type="checkbox"/>	WETLANDS	<input type="checkbox"/>	RESOURCE EXTRACTION
		<input type="checkbox"/>	OTHER	<input type="checkbox"/>	STOWAGE/LAND DISPOSAL
				<input type="checkbox"/>	HYDRO MODIFICATION
				<input type="checkbox"/>	OTHER

PROJECT LOCATION: LATITUDE MIN. N/A LONGITUDE MIN. N/A

**SUMMARIZATION OF MAJOR GOALS:**

The goal of the North Dakota Envirothon project is to strengthen participants' problem solving skills by providing an opportunity for students in grades 9-12 to gain knowledge using science-based information. They are then able to make wise decisions concerning water and its relationship to other natural resources.

**PROJECT DESCRIPTION:**

The North Dakota Envirothon is a hands-on problem-solving natural resource competition for high school students. Teams are generally associated with a sponsoring school, and usually train the entire school year with their advisor or "coach" in preparation for the annual state-wide competition. Study resources in the fields of soils, aquatics, wildlife, prairie (forestry and rangeland) and a current environmental issue are assembled by natural resource professionals and provided to the teams. In late spring, each team has the option to select five members and one alternate to compete at the North Dakota State Envirothon Competition.

FY 319 funds requested:	\$	185,385
Match (Cash)	\$	25,900
Match (In-kind)	\$	121,110
Total project cost	\$	332,395

In 1988 the program became known as the Envirothon. That same year teams from Pennsylvania, Ohio and Massachusetts competed in the first "National Envirothon" and in 1992 a Canadian team participated for the first time, and later became the "NCF-Envirothon." In 2014 the Envirothon program moved to the National Conservation Foundation (NCF). NCF has a vision for a global program by 2030.

The mission of the NCF-Envirothon is to develop knowledgeable, skilled and dedicated citizens who have an understanding of natural resources and are willing and prepared to work towards achieving and maintaining a balance between the quality of life and the quality of the environment.

The Envirothon mission is accomplished by developing in young people an understanding of the principles and practices of natural resource management and how ecology works then applying those practices and principles while dealing with complex resource management decisions.

The North Dakota Envirothon serves as a “feeder” program for the National Envirothon Program. The winning team advances to the North American Envirothon Competition held every summer.

2.2 The North Dakota Envirothon has held annual competitions since 2000. Over the 21-year time period, 362 teams or 1,810 students have competed. The project currently involves a regional competition in the northwestern part of North Dakota (Mouse River Loop) and another regional competition in central North Dakota (Lewis and Clark Envirothon). The Lewis and Clark Envirothon held a “Train The Teacher ” event in the fall of 2017, 2018, 2019, and 2020 as a precursor to the Regional Envirothons, which are held each fall. Currently there are nearly 200 teachers on the email list, which receive updates on the educational material provided by North Dakota Envirothon. Appendix A illustrates the broad reach of North Dakota Envirothon as an extracurricular activity across the state. In addition, teachers are also using the Envirothon teaching materials in their classrooms so this makes it impossible to even estimate the number of students who have benefited from the program. Approximately 50 past participants in the North Dakota Envirothon have gone on to environmental science careers. Please see Appendix B for the time and event schedule of the most recent in person North Dakota Envirothon Competition. The 2020 competition was canceled and the 2021 competition was held virtually.

A set of resource materials for each discipline is developed annually and made available to educators and teams via the North Dakota Envirothon Website [ndenvirothon.org](http://ndenvirothon.org) each fall. Please visit [ndenvirothon.org](http://ndenvirothon.org) for a complete listing of the current resource materials.

More important than environmental careers is the fact that these students have all been taught about the importance of water quality in their daily lives. The students are now scattered across the country where they are able to utilize their knowledge in their communities. Everything they have learned at Envirothon – from the principles of water quality to the communication skills necessary to lead their communities – can be applied. It is necessary that this education continues to assure a more knowledgeable public.

### 3.0 PROJECT DESCRIPTION

#### 3.1 Project Objectives:

Objective 1: Develop, maintain, promote and grow the North Dakota Envirothon program.

Contract with a coordinator to develop, promote and implement the North Dakota Envirothon Program. Coordinator will be secured as a contracted services provider to North Dakota Envirothon a 501c3. Coordinator will be responsible for all office supplies, office space, postage, in-state travel expenses, and related self-employment taxes. Activities will include distribution of study materials to participating schools, traveling to locations to promote North Dakota Envirothon, soliciting donations and volunteer participation to support the program, coordinating and serving as a member of the North Dakota Envirothon Committee, maintaining the official North Dakota Envirothon website, increasing the program’s social media presence, and other duties as required to result in a successful North Dakota Envirothon program.

1.1 Product:	Coordinator contract secured, duties performed.
Task:	Secure coordinator contract, receive performance updates.
Milestone: 2024	Coordinator Contract subject to annual review: August 2022, August 2023, and August 2024
Cost:	\$36,000 annually; \$108,000 for three years.

1.2 Product: Increased participation in North Dakota Envirothon program by two schools per year for three years (total of six new schools). Increase regional competitions by 1 area.

Task: Increase participation in the ND Envirothon by two schools or programs per year. Crystal springs has a maximum team capacity of 25. Create a qualification system if more than 25 teams are interested.

Milestone: June 30, 2023

June 30, 2024

June 30, 2025

Cost: Included in Coordinator contract (Product 1.1); \$0.

1.3 Product: Local support through cash donations received by North Dakota Envirothon.

Task: Receive local support.

Milestone: June 30, 2023

June 30, 2024

June 30, 2025

Cost: Included in Coordinator contract (Product 1.1); \$0.

1.4 Product: Contract with bookkeeper to maintain financial records of North Dakota Envirothon and submit required reports.

Task: Financial records maintained, reports submitted as required.

Milestone: Ongoing, annually, quarterly.

Cost: \$5,000 annually, \$15,000 for three years.

1.5 Product: Register two Indigenous teams per year.

Task: Product 1.5's goal is to register 2 Indigenous teams in 2023. The ND Envirothon Coordinator will work on school recruitment in conjunction with an Indigenous advisor and United Tribes Technical College (UTTC). Recruitment will start locally with Bismarck Public Schools and Mandan Public Schools before expanding to other areas of the state. This partnership will work to engage Indigenous students and prepare them for the ND Envirothon competition. Funds will be used to pay for an Indigenous advisor and team supplies. We will support up to 5 teams (25 students) per year (possibly all from the same school). The Indigenous advisor will partner with UTTC to host a yearly advisor training workshop and check in monthly with Indigenous teams and advisors to build relationships and share resources related to Indigenous Science. The advisor training and resources will be available to all schools but be advertised to schools with high Indigenous enrollment and schools looking to broaden participation on their team. Linking cultural and traditional Indigenous influences to natural resources can ignite stronger interest in natural resources for Indigenous youth as well as pride in identity. Yet, Indigenous high school students living off reservations often have little to no cultural and traditional influences in their schools. Further, non-native advisors often have little to no training on incorporating Indigenous knowledge into the natural resource curriculum. An Indigenous advisor can therefore support the ND Envirothon Coordinator with more specific recruitment strategies and resources for Indigenous students. We will learn from this relationship building process to further broaden ND Envirothon's diversity.

Milestone: May 2023

May 2024

May 2025

Cost: \$3000 annually, \$9000 for three years

Objective 2: Stimulate interest in natural resources that will result in a life-long desire to make wise decisions and strengthen complex problem-solving skills particularly regarding water quality and pollution control. Connect students and educators with current and former natural resource professionals to create a tangible connection between classroom study of natural resources and real-life professionals and personal situations. Provide current information on natural resource management to youth in grades 9-12.

2.1 Product: Coordinator and North Dakota Envirothon Committee technical teams assemble resource study materials to provide to teams. Updated study materials distributed to participating schools.

Task: Study materials updated and distributed yearly. Study materials are available on our website and include everything a team needs to review to prepare for the competition in the areas of soils, aquatics, wildlife, prairie, and forestry. Study materials include websites, books, videos, and brochures. Our website also has training videos showing different natural resource techniques (for example: how to estimate range production using a range clipping kit, how to check soil texture, creating a tree planting plan, and how to use the web soil survey.)

Milestone: September 2022  
September 2023  
September 2024

Cost: \$135 for 2023; \$150 for 2024; \$150 for 2025; \$435 total cost for three years, to assemble resources and provide to participating schools, to print trail tests, and to provide current issue packets to teams at competition.

2.2 Product: Members of the North Dakota Envirothon Committee and associated technical groups volunteer to work one-on-one with teams throughout the school year as requested. A wide variety of professionals volunteer their time to work with advisors to prepare teams for the state competition. Committee members also create training videos for each discipline to improve team's understanding of natural resource tools and concepts. In addition, advisors work countless hours preparing teams for competition. Many advisors work an average of 1-2 hours per week preparing teams for competition. A safe estimate is 20 teams per year with advisors preparing teams for 20 weeks. This results in 350 hours of advisor time each year. The state winning team's advisor will work an additional 20-50 hours preparing the team for the NCF National Competition.

Task: Volunteers work with teams.

Milestone: Ongoing

Cost: \$9,450 annually, \$28,350 total for three years is provided through in-kind donations of time and mileage in support of this objective.

2.3 Product: Host one coach's workshop per year to distribute and discuss resource materials and connect educators to natural resource professionals. Explore other options to reach advisors and help prepare teams (potential options include: webinars, training videos, etc).

Task: Annual coach's workshop.

Milestone: May 2023  
May 2024  
May 2025

Cost: In-kind donations included in cost of Product 2.3.

Objective 3: Host annual North Dakota State Envirothon Competition. Grow the state competition to maximum camp capacity. Host up to 25 five-member teams and associated coaches and volunteers including sleep and study rooms, mess hall and meals, outdoor space for trail tests, and recreation facilities for a 3-day event every May. Support the winning team to attend the North American Envirothon Competition.

3.1 Product: Host an annual North Dakota State Envirothon Competition. Costs include site, meals, awards, timing devices, signage, activities, etc.

Task: Annual ND State Envirothon Competition.

Milestone: 2023, 2024, 2025

Cost: \$16,300 in 2023, \$16,400 in 2024, \$16,500 in 2025; \$49,200 total.

3.2 Product: Provide support to winning North Dakota Envirothon team to attend the annual North American Envirothon Competition.  
Task: Winning ND team receives financial support.  
Milestone: 2023, 2024, 2025  
Cost: \$950 each year for three years to pay the registration fee for the North American Envirothon Competition; \$2850 total.

3.3 Product: North Dakota Envirothon Committee technical teams create trail test and current issue questions that offer a hands-on test of the student’s understanding of natural resources and ability to problem-solve at the State Competition.  
Task: Trail tests and current issue revealed at annual competition.  
Milestone: May 2023  
May 2024  
May 2025  
Cost: In-kind donations included in cost of Product 2.3.

3.4 Product: Increase the number of Regional Envirothon Competitions held each fall (currently there are two established: “Mouse River Loop Envirothon” and “Lewis and Clark Envirothon.” Add a third regional competition in the state.  
Task: New regional competition established.  
Milestone: 2024  
Cost: Included in Coordinator contract (Objective 1, Product 1.1); \$0.

3.5 Product: Add an Indigenous perspective on natural resources, particularly the importance of water to the state competition for all teams to attend. This goes hand in hand with product 1.5. Indigenous peoples practice environmental science both historically and today, yet, this perspective of science is often overlooked in favor of western science. To make natural resource learning inclusive to all students, including Indigenous students, we are requesting \$300 per year to plan and incorporate an interactive education session. Once a supply list is collaboratively developed the supplies will be provided by United Tribes Technical College extension and outreach departments.

Task: Add an Indigenous perspective on natural resources, particularly water, to the state competition to further educate all envirothon teams and increase diversity at the competition.

Milestone: May 2023, May 2024, May 2025

Cost: \$300 per season. \$900 total

3.6 See attached Milestone Table. (Appendix C) update after these products are finalized

#### 4.0 COORDINATION PLAN

The North Dakota Envirothon is a 501(c)(3) and is advised by the North Dakota Envirothon Committee.

The North Dakota Envirothon is a 501(c)(3) and advised by the North Dakota Envirothon Committee. Committee members are represented by the NRCS, ND Water Commission, ND Game and Fish Department, ND Forest Service, ND Department of Environmental Quality, Army Corps of Engineers, US Forest Service, Valley City State University, and North Dakota State University. Committee members work in teams representing the 4 Envirothon Trail Test disciplines: soils, aquatics, forestry/prairie, and wildlife. These teams prepare study resources, state competition trail tests, assist ND Envirothon Coordinator with state competition planning, and provide hands-on education assistance to Envirothon teams.

The NDEC is made up of fourteen (14) members:

- Two members who are experts in, working in, or retired from, a field of Soil Science;
- Two members who are experts in, working in, or retired from, a field of Aquatic Science;
- Two members who are experts in, working in, or retired from, a field of Wildlife Science;
- Two members who are experts in, working in, or retired from, a field of Forestry or Rangeland Science;
- Two members representing ND Soil Conservation Districts;
- One member who is also the North Dakota Envirothon Coordinator;
- One member representing the ND Envirothon;
- Two members representing environmental advocacy, conservation, education or citizen groups.

From among the members, officers are elected to serve:

- One Chairperson, who shall be responsible for developing meeting agendas in cooperation with the North Dakota Envirothon Coordinator, announcing meetings, maintaining the NDEC membership list and contact information, and ensuring that all Technical Committee deliverables are on time, appropriate and consistent;
- One Secretary, who shall keep the official minutes of the NDEC, maintain records of attendance at all meetings, and safeguard all documents;
- One Treasurer, who, in cooperation and subject to the direction of the ND Envirothon as Fiscal Agent, will receive and disburse funds, maintain current account balances, and report regularly to the NDEC on financial matters;
- One Soils Coordinator, who shall be responsible for coordinating the Soils Technical Committee which will be made up of professionals in the field, will provide appropriate resources and study material to Teams, and develop the Soils Trail Test;
- One Aquatics Coordinator, who shall be responsible for coordinating the Aquatics Technical Committee which will be made up of professionals in the field, will provide appropriate resources and study material to teams, and develop the Aquatics Trail Test;
- One Wildlife Coordinator, who shall be responsible for coordinating the Wildlife Technical Committee which will be made up of professionals in the field, will provide appropriate resources and study material to teams, and develop the Wildlife Trail Test;
- One Prairie (Forestry & Rangeland) Coordinator, who shall be responsible for coordinating the Prairie Technical Committee which will be made up of professionals in the fields, will provide appropriate resources and study material to teams, and develop the Prairie Trail test; and
- One Current Issue Coordinator, who shall be responsible for assembling a Technical Committee appropriate to the Current Issue who will provide appropriate resources and study material to teams, and develop the Current Issue Presentation and Current Issue Competition Question.

4.2 The ND Envirothon contracts with the North Dakota Envirothon Coordinator and has formed the North Dakota Envirothon Committee (NDEC), whose core objectives are:

1. Develop, maintain, promote and grow the North Dakota Envirothon program;
2. Connect student and educators with current and former natural resource professionals to create a tangible connection between classroom study of natural resources and real-life professional and personal situations; and
3. Host annual North Dakota State Envirothon Competition.

Each season, ND Envirothon teams receive local ND Soil Conservation District sponsorship, support, and education assistance to help prepare teams for the state competition.

The ND Envirothon receives cash donations from non-federal agencies. The ND Envirothon has received a \$1000-2000 donation every year since inception from the ND Association of Soil Conservation Districts. In addition, the ND Game and Fish Department has supported the ND Envirothon financially yearly since inception in 2000. The Natural Resource Trust provided financial support in 2015, 2017, 2018, and 2019/2020 (\$10,000 each year). Montana Dakota Utilities (MDU) provided a \$500 grant in December 2021. From year to year different soil conservation districts provide additional financial support to both the state competition and regional competitions. Grant awards and emails are available upon request.

4.3 A diverse group of organizations have provided, and continue to provide, technical and financial support for the North Dakota Envirothon. These organizations include:

**North Dakota Envirothon Sponsor List**

241 ink Productions	ND Employees Association of Soil Conservation Districts
Action Trackchair	ND Forest Service
Agtegra Cooperative	ND Game and Fish Department
American General Contractors	ND State Water Commission
Bank Forward	NDSU Department of Natural Resource Studies
Barnes County SCD	NDSU Extension
Barnes County Wildlife Federation	North Dakota Natural Resources Trust
Basin Electric	Pheasants Forever
Border States Trophy	Prairie Waters Education and Research Center
Brenda and Steve Nagle	Ransom County Soil Conservation District
Browning Bees	Rutland Sportsmans Club
Burleigh County SCD	Sargent County Pheasants Forever
Cass County SCD	Sheyenne James RC&D
Coaches Choice	South McLean SCD
Cogswell Gun Club	Stutsman County SCD
Crystal Springs Baptist Camp	the Arc Group
Ducks Unlimited	Traill County SCD
Emmons County SCD	Turtle Lake Wildlife Club
Foster County SCD	United Tribes Technical College
Great River Energy	US Army Corps of Engineers
James River Valley Pheasants Forever	US Fish and Wildlife Service
K2S Engineering, Inc.	US Forest Service

Macholda Farms	USDA-Natural Resources Conservation Service
Mouse River Loop Envirothon	Valley City State University
Montant Dakota Utilités (MDU)	Ward County SCD
ND Association of Soil Conservation Districts	Waste Management
ND Association of Soil Conservation Districts Auxiliary	Wild Rice SCD
ND Department of Environmental Quality	Windy Mound Turkey Federation

4.4 ND Eco-Ed is a hands-on, problem-solving environmental education program. The students are divided into groups and rotated through 5 required stations dealing with wetlands, woodlands, water quality, soils, and grasslands – each linked to water quality problems and solutions. The sessions are facilitated by professionals who have the most up-to-date information and teaching tools. These sessions are usually followed by a wildlife program or a Project TREES presentation. The students attend during classroom hours and are accompanied by their classroom teachers and parent/chaperones. Eco-Ed is for grades 6-8. Project TREES is for grades K-6. The ND Envirothon is a continuation of both Eco-Ed and Project TREES for students in grades 9-12. All three projects work to increase students' understanding of natural resources.

## 5.0 EVALUATION AND MONITORING PLAN

Two mechanisms are used to evaluate and monitor the program. The general evaluation is a one page form which covers the different components of the competition to further improve the program. The students, volunteers, guests and agency representatives complete this survey.

The second evaluation is completed by the team advisor/coaches. This survey is more detailed and provides the advisors an opportunity to give feedback and recommendations to the North Dakota Envirothon Committee to improve the program.

The comments from these evaluations are reviewed by the NDEC, which then makes improvements for the next competition. In addition, the technical committees meet regularly throughout the year to review, revise and update the resource materials to better enhance the North Dakota Envirothon learning process.

Sample evaluations are included in Appendix D.

## 6.0 BUDGET

6.1 See attached tables. (Appendices E and F)

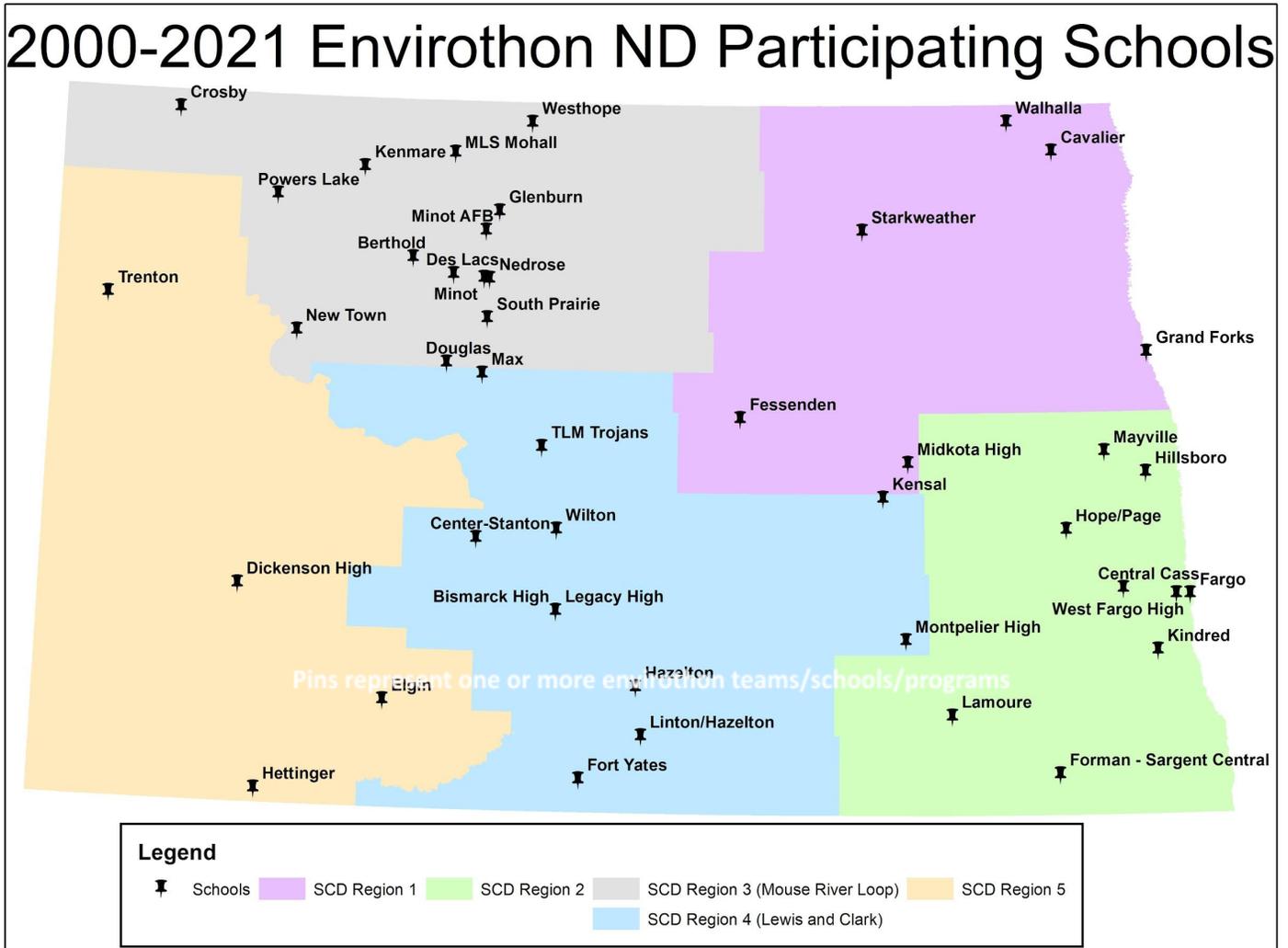
## 7.0 PUBLIC INVOLVEMENT

Public involvement is an essential component of the North Dakota Envirothon Program. One of the core objectives of the North Dakota Envirothon Committee is to connect students and educators with current and former natural resource professionals to create a tangible connection between classroom study of natural resources and real-life professional and personal situations. Over 40 volunteers from across the state (natural resource professionals and laypersons), come together to facilitate the annual state competition and serve as trail guides, timers, and judges.

North Dakota's Soil Conservation Districts (SCDs) work with the teams by providing materials, financial and technical support. Barnes, Stutsman, and Cass County Soil Conservation Districts have financially supported this program since its inception.

The North Dakota Envirothon encourages the public, sponsors, parents, and guests to attend the State Envirothon Competition. News articles, videos, magazine articles, brochures and scheduled meetings share the Envirothon story.

**Appendix A: Map**



## Appendix B: Schedule

# 2019 North Dakota Envirothon Comprehensive Schedule

Location: Crystal Springs Camp near Medina, ND

### Wednesday May 8

- 5:00 p.m. Registration
- 6:30 p.m. Evening meal
- 7:00 p.m. Tools Training with Natural Resource Professionals
- 7:30 p.m. Ice Breaker, Socialize while waiting for teams to arrive - Dining Hall
- 8:30 p.m. Snacks in Dining Hall
- 10:30 p.m. Adjourn to assigned dorms

### Thursday May 9

- 7:30 a.m. Breakfast – Dining Hall
- 8:00 a.m. Welcome (Dane), Tool/Equipment Briefing (Committee members)  
Rules Overview and Trail Guide Team Assignments (Fred)
- 8:30 a.m. Trail Guides grab snacks for your team
- 9:00 a.m. Trail Test [\(Advisors Workshop - Wildlife, 1st floor boy's dorm\)](#)

Sakakawea Trail		Lewis and Clark Trail	
Stop # 1	Team # 1	Stop # 1	Team # 14
Stop # 2	Team # 2	Stop # 2	Team # 15M
Stop # 3	Team # 3	Stop # 3	Team # 16
Stop # 4	Team # 4	Stop # 4	Team # 17
Stop # 5	Team # 5A	Stop # 5	Team # 18
Stop # 6	Team # 6	Stop # 6	Team # 19
Stop # 7	Team # 7	Stop # 7	Team # 20A
Stop # 8	Team # 8	Stop # 8	Team # 21
Stop # 9	Team # 9	Stop # 9	Team # 22
Stop # 10	Team # 10A	Stop # 10	Team # 23
Stop # 11	Team # 11	Stop # 11	Team # 24
Stop # 12	Team # 12	Stop # 12	
Stop # 13	Team # 13	Stop # 13	
Stop # 14		Stop # 14	

- 10:00 a.m. [\(Advisors - Dining Hall\)](#)
- 10:30 a.m. [\(Advisors Workshop - Envirothon Coordinator, 1st floor boy's dorm\)](#)
- 11:20 a.m. First Trail Test Ends, teams relax until lunch.
- 12:00 p.m. Lunch
- 1:00 p.m. Trail Test

Sakakawea Trail		Lewis and Clark Trail	
Stop # 1	Team # 14	Stop # 1	Team # 1
Stop # 2	Team # 15M	Stop # 2	Team # 2
Stop # 3	Team # 16	Stop # 3	Team # 3
Stop # 4	Team # 17	Stop # 4	Team # 4
Stop # 5	Team # 18	Stop # 5	Team # 5A
Stop # 6	Team # 19	Stop # 6	Team # 6
Stop # 7	Team # 20A	Stop # 7	Team # 7
Stop # 8	Team # 21	Stop # 8	Team # 8
Stop # 9	Team # 22	Stop # 9	Team # 9
Stop # 10	Team # 23	Stop # 10	Team # 10A
Stop # 11	Team # 24	Stop # 11	Team # 11
Stop # 12		Stop # 12	Team # 12
Stop # 13		Stop # 13	Team # 13
Stop # 14		Stop # 14	

- 1:00 p.m. [\(Advisors Workshop - Soils, 1st floor boy's dorm\)](#)
- 2:30 p.m. [\(Advisors Workshop - Aquatics 1st floor boys' dorm\)](#)
- 3:20 p.m. Second Trail Tests Ends
- 3:30 p.m. Snacks – Break for Everyone – Dining Hall
- 4:00 p.m. 2018 Current Issue @ Chapel – (Matthew Peterson, Agtegra)  
[\(“Agriculture and the Environment, Knowledge and Technology to Feed the World”\)](#)  
[\(Advisors Take Wildlife/Aquatics Trail Test w/Tina, Bonita, Marty\)](#)

5:00 p.m. Teams relax until evening meal  
 6:00 p.m. Evening Meal – Dining Hall  
 7:00 p.m. Oral Presentation Preparation Briefing – Chapel – Carol/Dane  
 8:00 p.m. Karaoke/ Basketball/ etc. – Activity Center  
 11:00 p.m. Adjourn to dorms

**Friday May 10      **Wear Envirothon T-Shirts!****

7:30 a.m. Breakfast  
 7:50 a.m. Announcements – Dining Hall – Dane  
 8:00 a.m. - 9:00a.m. (Advisors review team's trail tests 1st floor boy's dorm w/Marty)  
 8:00 a.m. Teams Oral Presentation Question Carol/Dane/ Dining Hall  
 8:15 a.m. – 10:30 a.m. Team Oral Presentation Prep in assigned rooms (2 hours 15 minutes)  
 9:00 a.m. (Advisors - 2019 Current Issue – (Chapel w/ND State Water Commission & Rural Water reps)  
 "Water Resources Management: Local Control and Local Solutions"  
 11:00 a.m. – 11:45 a.m. Teams 11 – 24 – Education Activity  
 10:30 a.m. – 1:30p.m. Teams can review trail tests when not presenting – (Activity Center)

**Teams #1, #2, #3, #4 #5A**

**Get your snacks quickly and proceed to your assigned presentation room to rehearse, be ready to present by 11:00 am**

10:30 a.m. Oral/Prep/Teams: 1 – 2 – 3 – 4 – 5A      **Team Pictures after orals - Dining Hall**  
 11:00 a.m. First Round Oral Presentations  
              Teams:    1    2    3    4    5A  
              Room:    A    B    C    D    E

11:00 a.m. Oral/Prep/Teams: 6 – 7 – 8 – 9 – 10A      **Team Pictures after orals - Dining Hall**  
 11:30 a.m. Second Round Oral Presentations  
              Teams:    6    7    8    9    10A  
              Room:    A    B    C    D    E

12:00 p.m. Noon Lunch – Dining Hall  
 1:00 p.m. – 1:45 p.m. Teams 1 – 10A – Education Activity

**Teams #11, #12, #13, #14, #15M**

**Eat lunch at 11:45AM to allow the full 30-minute prep time before you present at 12:45PM**

12:15 a.m. Oral/Prep/Teams: 11 – 12 – 13 – 14 – 15M **Team Pictures after orals - Dining Hall**  
 12:45 a.m. Third Round Oral Presentations  
              Teams:    11   12   13   14   15M  
              Room:    A    B    C    D    E

12:45 a.m. Oral/Prep/Teams: 16 – 17 – 18 – 19 – 20A **Team Pictures after orals- Dining Hall**  
 1:15 p.m. Fourth Round Oral Presentations  
              Teams:    16   17   18   19   20A  
              Room:    A    B    C    D    E

1:15 p.m. Oral/Prep/Teams: 21 - 22 - 23 - 24 **Team Pictures after orals - Dining Hall**  
 1:45 p.m. Fifth Round Oral Presentations  
              Teams:    21   22   23   24  
              Room:    A    B    C    D    E

2:30 p.m. Snacks, Announce Top Three Teams – Dining Hall  
 3:00 p.m. Team A Final Oral

<b>3:30 p.m.</b>	<b>Team B Final Oral</b>	
<b>4:00 p.m.</b>	<b>Team C Final Oral</b>	
<b>4:30 p.m.</b>	<b>Awards Ceremony</b>	<b>Marty/Fred</b>

## Appendix C: Milestones

North Dakota Envirothon Milestones											
Milestone	July 2022	Sept 2022	May 2023	June 2023	September 2023	May 2024	June 2024	Sept 2024	May 2025	June 2025	September 2025
Coordinator contract secured; Coordinator working toward program goals	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
Two New Schools Per Year			Red			Red			Red		
Local Cash Donations Received				Blue			Blue			Blue	
Contract with Bookkeeper	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Resources Assembled and Distributed		Blue			Blue			Blue			Blue
Resource Professionals and Advisors Work With Teams	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
ND Envirothon Committee Create trail test			Blue			Blue			Blue		
Coach's workshop			Red			Red			Red		
Register 2 tribal teams per year & continue outreach		Blue	Blue		Blue	Blue		Blue	Blue		

Native American Educational program at state											
ND State Envirothon Competition											
Pay registration fee to NCF Envirothon											
Increase number of regional competitions to 3											

## Appendix D: ND Envirothon Evaluation Form

### North Dakota Envirothon Evaluation 2021 Evaluation for: Advisors

Please complete this questionnaire as candidly and in as much detail as possible. Don't be afraid to be critical. We will use this information to help us to improve the Envirothon for next year.

\* Required

Name (optional)

Your answer

Is this your first year in the Envirothon? \*

Yes

No

Comments on Schedule for 2021 Event:

Your answer

Comments on Two trail tests Prairie/Forestry/Wildlife Aquatics/Soils

Your answer



Resource Material Do you like receiving the updated Envirothon resources on the [ndenvirothon.org](http://ndenvirothon.org) web site?

yes

no

How did your school/organization utilize the study material?

Class Curriculum

Science/Environmental Club

Other:

Was the available study material received early enough in the school year?

yes

no

If you could change one thing about the online resources what would it be?

Your answer

Was the correspondence and information you received, clear and useful to you?

Your answer

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## Appendix E- Funding Sources

Funding Sources				
	Year 1	Year 2	Year 3	Total
<b>EPA SECTION 319 FUNDS</b>				
1)FY 2022 Funds (FA)	\$61,795	\$61,795	\$61,795	\$185,385
<b>STATE/LOCAL MATCH</b>				
1) Cash Donations	\$8,633	\$8,633	\$8,633	\$25,900
2) Advisor Time 350 hours @\$27.00/hr.	\$9,450	\$9,450	\$9,450	\$28,350
3) Volunteer Mileage 7000 miles @\$0.56/mile	\$3,920	\$3,920	\$3,920	\$11,760
4.) State competition volunteers 1000 hours @\$27.00/hour	\$27,000	\$27,000	\$27,000	\$81,000
Subtotals Match				\$147,010
<b>TOTAL BUDGET</b>				
				<b>\$332,395</b>
<b>OTHER FEDERAL FUNDS</b>				
1) NRCS (TA at competition)	50,000	50,000	50,000	150,000
<b>TOTAL FEDERAL FUNDS</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>150,000</b>
<b>TOTAL PROJECT COST</b>				
FA: Financial Assistance				
TA: Technical Assistance				
<p>1. Cash donations will be received from a variety of local sponsors. Past sponsors have included: North Dakota Forest Service, North Dakota Association of Soil Conservation Districts, American General Contractors, Barnes County Soil Conservation District, Barnes County Wildlife Federation, Cass County Soil Conservation District, CHS Foundation, K2S Engineering, Kinder Morgan, Stutsman County Soil Conservation District, North Dakota Game and Fish Department, MDU, Natural Resources Trust.</p> <p>2. Federal in-kind time includes members of the North Dakota Envirothon Committee, technical assistance volunteering to work one-on-one with teams throughout the school year, and volunteer time at the state competitions. This also includes technical team work on assembling resources, creating trail tests and current issue questions, and effort towards the coach's workshop, and distributing and discussing resource materials.</p>				

## Appendix F - Detailed Budget

Detailed Budget (Section 319/Non-Federal)							
	Year 1	Year 2	Year 3	Total Costs	Cash Match	In-Kind Match	Revised 319 Funds (Feb 2022)
Objective 1: Develop, maintain, promote and grow the North Dakota Envirothon program.							
Coordinator @ \$3,000/month	\$36,000	\$36,000	\$36,000	\$108,000	\$10,000	\$0	\$108,000
Bookkeeper paid hourly	\$5,000	\$5,000	\$5,000	\$15,000	\$0	\$0	\$15,000
Indigenous advisor, recruiter, mentor, educator \$3000/Year	\$3,000	\$3,000	\$3,000	\$9,000	\$3,000	\$0	\$9,000
Subtotals	\$44,000	\$44,000	\$44,000	\$132,000	\$13,000	\$0	\$132,000
Objective 2: Stimulate interest in natural resources							
Team Study Materials	\$135	\$150	\$150	\$435	\$0	\$0	\$435
Volunteer Team Coaches 350 hours/year @ \$27.00/hour	\$9,450	\$9,450	\$9,450	\$28,350	\$0	\$28,350	\$0
Subtotals	\$9,585	\$9,600	\$9,600	\$28,785	\$0	\$28,350	\$435
Objective 3: Host annual North Dakota State Envirothon Competition.							
Host State Competition	\$16,300	\$16,400	\$16,500	\$49,200	\$10,000	\$92,760	\$49,200
North American Envirothon Competition Registration	\$950	\$950	\$950	\$2,850	\$2,000	\$0	\$2,850
Expand diversity perspectives at state competition	\$300	\$300	\$300	\$900	\$900	\$0	\$900
Subtotals	\$17,550	\$17,650	\$17,750	\$52,950	\$12,900	\$92,760	\$52,950
TOTAL							
Total for all Objectives/Tasks					\$25,900	\$121,110	\$185,385

## Appendix G

1.5 Product: Register two Indigenous teams per year.

Task: Product 1.5's goal is to register 2 Indigenous teams in 2023. The ND Envirothon Coordinator will work on school recruitment in conjunction with an Indigenous advisor and United Tribes Technical College (UTTC). Recruitment will start locally with Bismarck Public Schools and Mandan Public Schools before expanding to other areas of the state. This partnership will work to engage Indigenous students and prepare them for the ND Envirothon competition. Funds will be used to pay for an Indigenous advisor and team supplies. We will support up to 5 teams (25 students) per year (possibly all from the same school). The Indigenous advisor will partner with UTTC to host a yearly advisor training workshop and check in monthly with Indigenous teams and advisors to build relationships and share resources related to Indigenous Science. The advisor training and resources will be available to all schools but be advertised to schools with high Indigenous enrollment and schools looking to broaden participation on their team. Linking cultural and traditional Indigenous influences to natural resources can ignite stronger interest in natural resources for Indigenous youth as well as pride in identity. Yet, Indigenous high school students living off reservations often have little to no cultural and traditional influences in their schools. Further, non-native advisors often have little to no training on incorporating Indigenous knowledge into the natural resource curriculum. An Indigenous advisor can therefore support the ND Envirothon Coordinator with more specific recruitment strategies and resources for Indigenous students. We will learn from this relationship building process to further broaden ND Envirothon's diversity.

Milestone: May 2023

May 2024

May 2025

Cost: \$3000