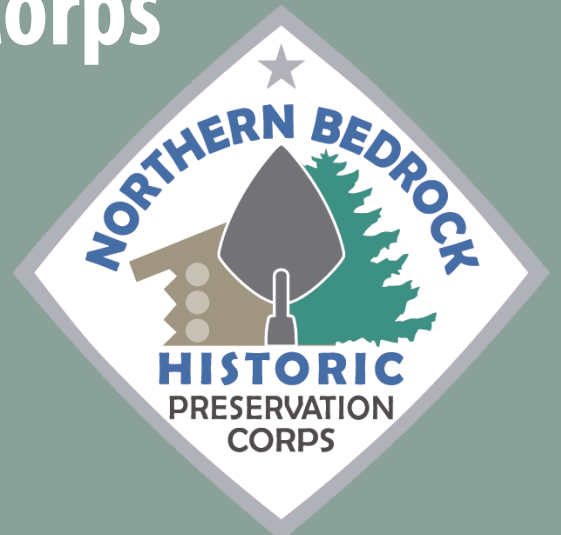




Northern Bedrock Historic Preservation Corps

Building Pathways to the Preservation Trades

2020 Field Season



2020 Field Season Report

Northern Bedrock Historic Preservation Corps

Building Pathways to the Preservation Trades

Report produced by
Northern Bedrock Historic Preservation Corps Staff

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Cover photo: Cemetery restoration project at Ely Cemetery.

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TABLE OF CONTENTS

Acknowledgments	4
Executive Summary	5
Organizational Overview	5
Outreach	6
Community Impact	7
Historic Preservation Impact	8
Field Season Overview	9
Historic Preservation Project Map	10
Corpsmember Training	12
Orientation	14
Project Reports	
Halfway Ranger Station Historic District	16
Ely Cemetery	18
Forest Lodge	20
Historic Duluth Armory	22
Anderson Center at Tower View Estate	24
CCC Camp Rabideau	26
Pope County	28
Voyageurs National Park	32
Riverside Park	34
Weyerhaeuser Museum	36
Old Frontenac Cemetery	38
Halfway Ranger Station Historic District- Passport in Time Project	40
Grand Portage National Monument	42
Edna G. Tugboat	44
Duluth Children's Museum	46



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Shawn Smith - Grand Portage National Monument
Dan Walker - City of Two Harbors
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Tom Koehler - Friends of Edna G.
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ADDITIONAL PARTNERS

Conservation Corps of Minnesota and Iowa
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Northland AmeriCorps Collaborative
Northland History Coalition
Rethos
State Historic Preservation Office
Superior Fuel
University of Minnesota Cloquet Forestry Center
The Corps Network

FRIENDS

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Kim Dufty
Sally Brown
Paul Brown
Walter Goodwater
Stephen Waylett
The Builders Group
Aerie Backcountry Medicine
Northwest Youth Corps

EXECUTIVE SUMMARY

Purpose of this Report

This report covers the 2020 Field Season (June - October). It includes an overview of the field season structure and schedule, the impact on historic resources, the impact on the Corpsmembers' lives, and 15 project reports.

The MNHS partnership funded two crews and a portion of the overhead for the program as a whole. Thank you for your continued support - especially in these financially and otherwise trying times.

Summary

Northern Bedrock Crews improved the aging stock of Minnesota's historic resources by coordinating with sites across the region to maintain and repair structures and landscapes. Northern Bedrock staff, Project Hosts, and Technical Specialists trained and worked with Corpsmembers in cemetery restoration, carpentry, window restoration, scraping and painting, log building maintenance, and documentation. Corpsmembers served communities while making personal and professional connections, and gained future career and life skills.

COVID-19 brought unexpected challenges to Northern Bedrock's 2020 field season. After collectively discussing best practices with other corps, we started our season late and with two crews instead of three. We spent extra time and effort at Halfway Ranger Station Historic District both initially and throughout the season. The pandemic encouraged staff to create more comprehensive health and wellness protocols that applied to everyone who was directly involved with the season. New procedures included logging daily health checks; heightened sanitization of spaces, vehicles, and tools; new guidance for Site Hosts, Technical Specialists, and volunteers; significantly reduced time spent indoors; and, individual health and safety contracts that covered both time on and days off. We are proud to report no incidents of or significant time lost due to COVID-19 on any of our hitches!

ORGANIZATIONAL OVERVIEW

Our Mission: *To develop enduring workforce and life skills through service learning in historic preservation and community stewardship.*

Our Values: *Serving, Transforming, Preserving, Honoring*

We focus on young adults, ages 18 – 25, who are interested in gaining hands-on experience in the preservation trades. These Corpsmembers are selected from all backgrounds and walks of life for their enthusiasm, desire to learn, and commitment to serve. They receive a Living Allowance in exchange for their service on one of two field crews. This year these were scheduled as nine, nine-day, camping-based project hitches that ran from late June through October, with five days off in between each hitch. Crew make-up and Corpsmembers roles were reassigned each hitch to offer everyone a variety of experiences. Projects are planned and funded through partnerships with a variety of groups throughout the state of Minnesota, including non-profit organizations and government entities at all levels (federal, state, county and local).

Corpsmembers are eligible to receive a Segal Education Award from the Corporation for National and Community Service (CNCS) upon successful completion of their AmeriCorps term of service. Other benefits include student loan deferment, leadership and team-building experience, an introduction to a spectrum of historic preservation trades, mentoring from staff and technical experts in the field, outdoor living skills development, and a chance to practice real world communication, project management, and community-engagement.

PUBLIC OUTREACH

In August, Northern Bedrock partnered with Pope County Historical Society to present a one day, public workshop on cemetery preservation. The workshop, hosted at East Zion Church near Starbuck, MN, covered the five steps important to the long term care of cemetery monuments: cleaning, probing for hidden stones, edging, resetting stones and documenting your work. Fifteen people participated in the cemetery restoration workshop, rotating in small groups between hands-on stations.



Corpsmembers and volunteers complete cemetery restoration projects at East Zion Church cemetery.

"In the future, I would like to be an active member of my community with work experience that goes beyond an office. I hope to study public interest law and this program offers a unique perspective on community engagement." - Corpsmember

In September, Northern Bedrock collaborated with Rethos and a host of additional invitees to demonstrate appropriate masonry repair at a project we started last year. Local historian, Bill Morgan, discussed the history of the Works Progress Administration era and its impact on the St. Cloud area, including Riverside Park. Corpsmembers and Technical Specialist, Ray Stenglein of Environmental Associates, Inc., shared how they repaired and restored parts of the stone retaining wall with integrated staircase and drainage 1933 flume. Corpsmembers divided participants into small groups to explore the many tasks involved. Eighteen people participated in the morning outreach session.

Additionally, this crew assisted our Technical Specialist with running the annual Out of the Darkness Willmar Community Walk focused on suicide awareness and prevention.



Corpsmembers demonstrating their work.

COMMUNITY IMPACT

Why do we do what we do? Staff, Hosts, and Technical Specialists have always helped to ensure that Corpsmembers enjoy a successful season. When community members visit and take the time to share how Corpsmembers impacted their communities, we are reminded of the continued importance of relationship building and why we do what we do.

Hi there, Jill,

Below is a note from a Frontenac resident who helped host the NB crew. You might want to pass it on to the crew. - Jamie

----- Forwarded message -----

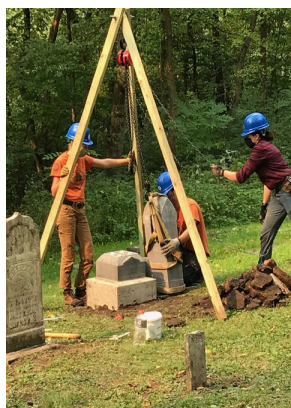
Jamie, you thanked me for our contributions this week. I said it was our pleasure. This is what I sincerely meant. I'm sending it to a few selected friends, and thought you should know what I meant:

As we keep getting disheartening news in the press, I'm sharing an extremely positive example of our country's future. Our cottage is located in a very tiny, historic village in southeast Minnesota. The only paved road is the one that leads you in and out of the village; otherwise it's gravel roads. No street lights. Sewer and water are supplied by our own means.

We have a tiny historic cemetery, started in the mid-1800s with many stones made of locally quarried granite. Being relatively soft, some of the stones have broken, and being in this humid area, most have been thickly covered in moss. This past eight days we were blessed with five young people from The Northern Bedrock Historic Preservation Corps, a division of AmeriCorps. I cannot say how impressed we are with these "kids." They camped in Frontenac State Park enduring temps in the mid-40s. Never a complaint. They worked hard 10-hour days. Never a complaint. We brought mid-morning treats and hot drinks. They were immediately devoured...with sincere thanks. They were as interested in the history of our village and cemetery as much as we old people living here are. Preservation was as important to them as to us. The changes they have brought to our cemetery are incredible. Stones which can now be read, stones which have been put back together, stones which were formerly buried have been brought to light - all an incredible betterment. But the most incredible thing they brought - at least to me - was hope for the future in this next generation. We are in good hands!

I'm sharing this because they lifted my spirits, and I'm hoping this does the same for you.

- Community Member



Photos courtesy of Community Member.

HISTORIC PRESERVATION IMPACT

Getting Stuff Done!

146,060 ft² Buildings Cleaned
 80,732 ft² Brush Removed
 12,872 ft² Pest Mitigation (Borates)
 11,432 ft² Finishing (paint/stain/wax)
 5,850 ft² Landscaping Completed
 2,179 ft² Masonry Cleaned
 805 ft² Masonry Repointed
 598 ft² Roofs Replaced
 333 Total Monuments Improved (333 Cleaned), (13 Edged),
 (45 Leveled), (124 Edged and Leveled), (76 Reset), (5 Unearthed)
 192 ft² Deconstruction/Demolition
 197 linear feet Stockade Repair
 38 linear feet Log Replaced
 52 Windows Reglazed
 9 linear feet Fascia Replaced
 6 Screens Repaired

8,486 Service Project Hours

8,181 Corpsmember
 267 Volunteer
 38 Staff

13 Service Project Hosts

1 Non-Profit Cemetery Org
 4 Other Non-Profits
 3 Minnesota Cities
 3 Federal Entities
 2 Historical Societies

"I gained personal development in recognizing/being more aware of my strengths and weaknesses in crew work. Specifically I feel as though I know how to communicate in a variety of ways based on different people and dissolve stress within teams better. Professionally, I learned more about the importance of record keeping and delegating. Having experiences in various trades was great, and I am considering going into a trade in the future." - Corpsmember



Corpsmember Post-Season Survey Results!

82% agree or strongly agree that they have a solid technical skill base, up from 45% on pre-season surveys

91% agree or strongly agree that they are good at planning, organizing, and completing tasks

91% agree or strongly agree that they are knowledgeable about historic preservation

FIELD SEASON OVERVIEW

Recruitment

Northern Bedrock received 56 applications and interviewed 31 applicants. We enrolled a total of 11 participants for the field season for reduced half-time terms (675 hours). We had a great deal of interest in our program, and attracted applicants from other corps programs that did not have a 2020 field season. Staff participated in the following virtual and in-person community events:

AmeriCorps Trivia Facebook Live	UMD AmeriCorps Week Tabling
AmeriCorps Alumni Scavenger Hunt	Ursa Minor Tuesday Talk with CCMI
Minnesota Private Colleges Career Fair	Saint Scholastica College Recruiting Week
UMD Public History Classroom Presentation	Head of the Lakes Job Fair
Northland AmeriCorps Collaborative Zoom	UMD Northland AmeriCorps Collaborative Table
Change, Inc. Classroom Presentation	



Why are you serving with Northern Bedrock? How does this fit into your future goals?

"I'm serving to get a chance to explore Minnesota history and to have a foundation of technical skills that will help me in the future. I'm learning a lot about myself and others."
- Corpsmember, recent high school graduate

"I plan to work in museums and archives someday, and this program is excellent for experience in the field." - Corpsmember, current college student

"I wanted to try something very different from what I had been doing before and get a little out of my comfort zone. I've always liked service learning and I was interested to get some hard skills from trades. I also wanted to try more job options before fully applying to a master's program." - Corpsmember, recent college graduate

Corpsmember Demographics

Race / Ethnicity

American Indian - 1
White - 9
Hispanic/Latino - 1

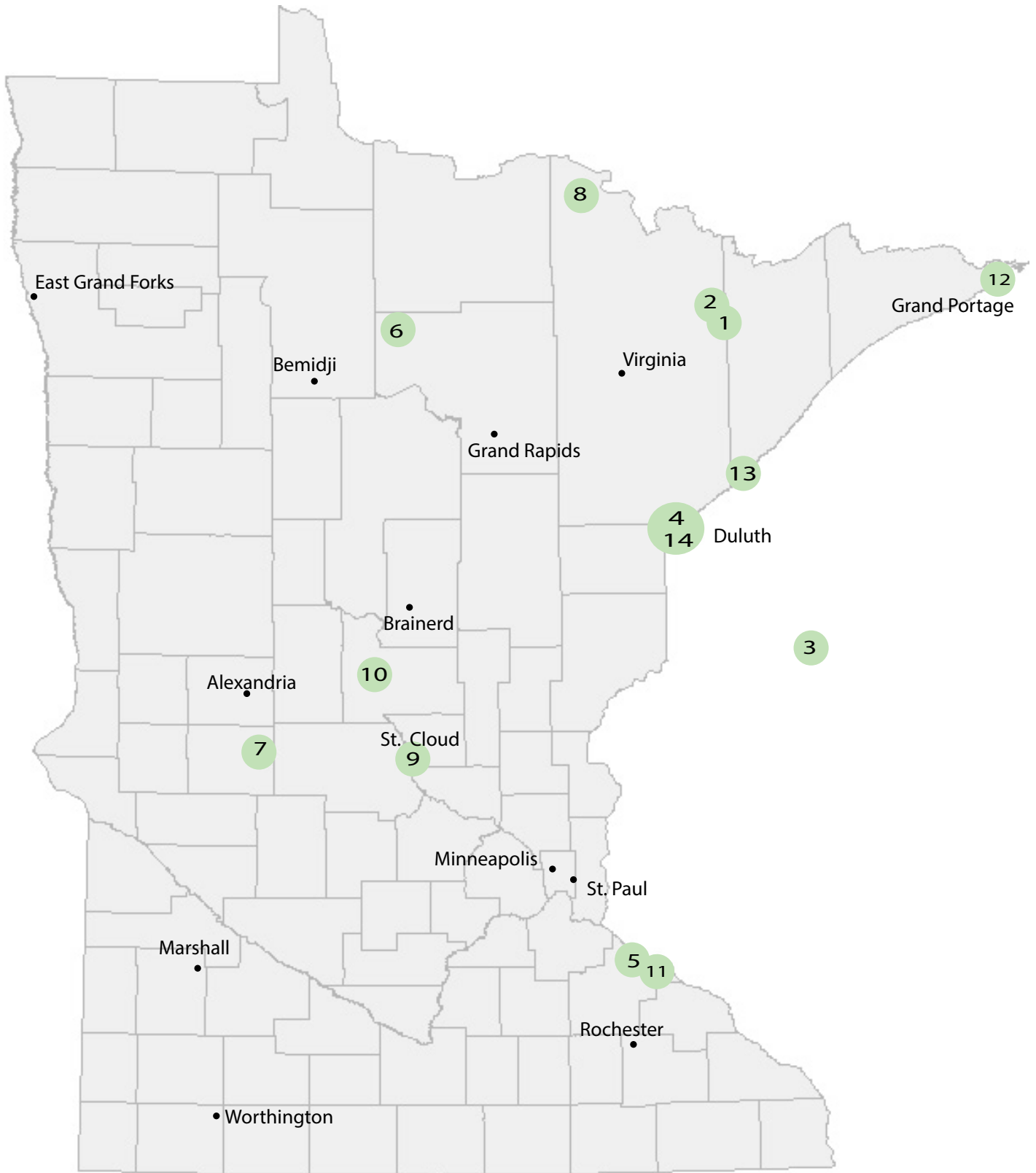
State Residency

Minnesota - 4
Wisconsin - 2
Other States - 5
• Colorado, Illinois, Iowa,
Missouri, Oregon

Education

High School Diploma - 3
Some college education - 1
College degrees - 7

2020 SERVICE PROJECT MAP



2020 FIELD SEASON HITCH DATES AND SITES

Hitch 1: 6/23 - 7/6

1. Halfway Ranger Station Historic District, Ely
[In the news!](#)
2. Ely Cemetery, Ely
[In the news!](#)

Hitch 2: 7/11 - 7/16

3. Forest Lodge, Cable, WI
4. Historic Duluth Armory, Duluth

Hitch 3: 7/21 - 7/29

5. Anderson Center at Tower View, Red Wing
1. Halfway Ranger Station Historic District, Ely

Hitch 4: 8/4 - 8/12

6. Chippewa National Forest - CCC Camp Rabideau
[In the News!](#)
7. Pope County Historical Society: Lake Ann Cemetery, East Zion Cemetery, Lake Reno Reformed, Cemetery Lake Emily, Pope County Court House

Hitch 5: 8/18 - 8/26

8. Voyageurs National Park- Kabetogama Visitor Center, Kabetogama

Hitch 5.5: 9/1 - 9/4

9. Riverside Park, St. Cloud
10. Weyerhaeuser Museum, Little Falls
1. Halfway Ranger Station Historic District, Ely

Hitch 6: 9/9 - 9/17

11. Old Frontenac Cemetery, Frontenac
[In the news!](#)
9. Riverside Park, St. Cloud

Hitch 7: 9/22 - 9/30

1. Halfway Ranger Station Historic District, Ely
12. Grand Portage National Monument, Grand Portage

Hitch 8: 10/6 - 10/14

12. Grand Portage National Monument, Grand Portage
13. Edna G. Tugboat, Two Harbors

Hitch 9: 10/21 - 10/28

14. Duluth Children's Museum, Duluth
1. Halfway Ranger Station Historic District, Ely
[In the news!](#)

CORPSMEMBER TRAINING

Summary

Initial training consisted of program orientation and hands-on practice. Corpsmembers improved hard skills such as tool use and safety, as well as soft skills such as conflict resolution and leadership (see pages 14-15 for full schedule). In order to assist our Corpsmembers in their job searches and career planning, we facilitated resume writing and career development conversations. We led reflections on the hard and soft skills Corpsmembers acquired. Chair of the national Advisory Council on Historic Preservation, Aimee Jorjani (pictured below with both crews at Voyageurs National Park), visited our program in August. She camped and chatted with Corpsmembers about their impression of the importance of hands-on preservation training.



"The program is a great stepping stone for my career with the hands-on trades that we develop. When I can learn and perform how to preserve something with its original technique, then I can help the people around me understand history." - Corpsmember



Advice to Future Corpsmembers from 2020 Alumni

- Be open minded and flexible.
- You are a team! Don't forget to work with your crew members.
- Definitely bring a cot!
- Enjoy each project for the history because sometimes the work seem menial, but it's worth it!
- Building a community with Corpsmembers, Technical Specialists, and Project Hosts is just as important as the work being completed!
- The hardest parts of this service are the parts that helped me grow the most.

Technical Specialists

Much like the Civilian Conservation Corps (CCC) relied on Local Experienced Men (LEM), Northern Bedrock relies heavily on both in-kind and contract Technical Specialist. This year the program spent \$8,453.35 on Technical Specialist guidance. Specific hands-on training and field mentoring included historic masonry techniques, window restoration, stockade repairs, and cemetery restoration.

"As per usual, the crew did great and worked hard to finish things up. We ended up doing some fairly advanced woodwork and window repair along with the usual scraping and painting. The [host] seemed very happy with the work." - Technical Specialist

Technical Specialist	Affiliation
Amos Johnson and Noelle Copeland	Hayes Window Restoration
Terry Horejsi	
Mark Johnston	Historic Design Consulting, LLC.
Ray Stenglein	Environmental Associates, Inc.
Beau Readman	Voyageurs National Park
Dennis Moran	HistoriCorps
Ron Anderson	Grand Portage National Monument



Project Hosts

Our Project Hosts partner with us to address critical preservation issues and to build pathways to the preservation trades for our Corpsmembers. These service projects enable us to provide opportunities for young people to learn real-world skills and open the door to a future career. We operate on a fee-for-service model, based on one crew for one nine-day hitch. Our staff do their best to estimate the amount of work a crew can accomplish during a hitch however, we are not a contractor but a service learning organization. We work with the Project Hosts to manage priorities and expectations throughout each hitch. It's truly satisfying to see how cost-effective this kind of focused attention can be.

"The corps made vital progress towards preparing our new [historic] building for reopening, a major step for the [project site] sustainability and stability." - Project Host

Program Orientation and Training

(Doubled as COVID-19 corps quarantine period)

Host: Northern Bedrock Historic Preservation Corps

Site: Halfway Ranger Station Historic District, Ely, MN

Hitch 1: Tuesday June 23 – Monday, July 6

Technical Specialists: NBHPC Staff, TBG, and Aerie

Tuesday, June 23: Welcome to the Program!

- Meet in Duluth, Travel to Halfway
- Introduction to Halfway Ranger Station Historic District
- Set up Camp, Sign up for Chores
- COVID Protocols Run-down
- Organization and AmeriCorps Overview
- Expectations and Group Culture Conversation

Wednesday, June 24: Intro to our Service

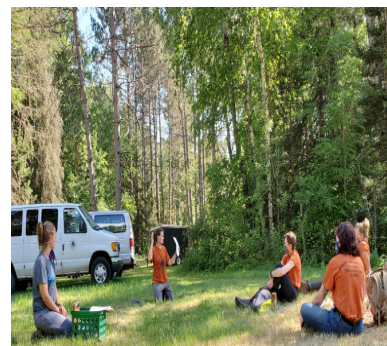
- Site Scavenger Hunt
- Leave No Trace
- Vehicle Policies and Behind the Wheel Practice
- Trailer Inventory
- Historic Preservation 101
- Upcoming Projects Slideshow

Thursday, June 25: OSHA 10

- Welcome TBG trainers!

Friday, June 26: OSHA 10 continued and Your Stomach

- OSHA 10 Wrap up
- Nutrition and Menu-planning
- ServSafe, Sanitation and Spike Bins



Morning Circle-up



Sanitation Station



Food Preparation

*"I have worked with historic sites and artifacts all of my life and wanted to continue doing that even while COVID-19 is out here. I'm hoping to gain skills in historic buildings preservation, group building while camping, and a better sense of what I want to do in the future."
- Corpsmember*



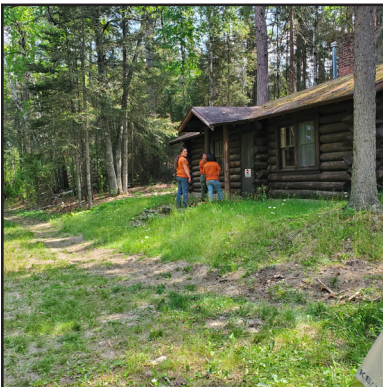
Wilderness First Aid



Tool Use and Safety



OSHA 10



Site Condition Assessments



Scraping and Painting

Saturday, June 27: Intro to Hands-On Projects

- Risk Management
- Tool Workshop Rotations
- Hands-On Projects
 - Lead Paint Removal
 - Step Construction
 - Firewise Tree and Brush Clearing
- Trailer Towing Practice

Sunday, June 28: Day Off

Monday, June 29: Program Roles and Wilderness First Aid (WFA)

- Crew Roles and Responsibilities
- Interactive Handbook Quiz
- Welcome Aerie Backcountry Medicine!

Tuesday, June 30: WFA continued

Wednesday, July 1: WFA continued

Thursday, July 2: Hitch Prep

- Hitch Out/In Logistics and Expectations
- Conflict Resolution
- What's in a Bin?
- Intro to Cemetery Restoration

Friday, July 3: Ely Cemetery Restoration Project

Saturday, July 4: Day Off

Sunday, July 5: All About Documentation

- Site Condition Assessments
- Halfway Projects Completion
- Orientation Reflections and Feedback

Monday, July 6: Wrap - Up

- Return to Duluth
- Unload, Clean, Inventory and Debrief
- Prepare for Hitch 2 Projects
- Head Home!

"I love the outdoors and am very interested in learning about traditional trade skills." - Corpsmember

Project: Site Maintenance and Restoration**Host: Northern Bedrock Historic Preservation Corps****Site: Halfway Ranger Station Historic District, Ely, MN (St. Louis County)****Hitch 1: Tuesday June 23 – Monday, July 6****Hitch 3.2: Tuesday, July 21, 2020 – Wednesday, July 29, 2020****Hitch 5.5: Tuesday, September 1, 2020 – Friday, September 4, 2020****Hitch 9: Wednesday, October 21 - Tuesday, September 27, 2020****ABOUT THE SITE**

The Halfway Ranger Station Historic District (HRSHD) is located on the South Kawishiwi River, 10 miles south of Ely, MN. The Historic District consists of seven log buildings constructed in 1934 by locally based Civilian Conservation Corps companies and three buildings of the Lakes States Forest Experimental Station (LSFES). The latter started operating as early as 1924, conducting forest research in the area. From at least 1910 until 1950, the site was the location for the Halfway Ranger Station of the Superior National Forest. Management of the site was assumed by the Northern Research Station (formerly LSFES) in 1968, and the buildings were utilized by federal biologists conducting long-term large mammal research. Northern Bedrock Historic Preservation Corps has a Participating Agreement with the Forest Service to preserve the site for its adaptive re-use.

HITCH SUMMARY

The crew worked on cleaning up different buildings at Halfway Ranger Station along with scraping and painting, landscaping and brush removal, and pest mitigation on the round long buildings. With Grace Leppink, Field Logistic Assistant, the crew cut down and removed fire hazard brush and created new tent camping spaces. The crew also applied a borate solution to most of the round log buildings on site.

QUANTITATIVE MEASUREMENTS

600 sq ft of structure cleaned

- Moved bunk beds
- Swept and mopped floors

770 sq ft of Scraping and Painting

- Lead abatement on the Garage/Insectary
- Cleaned the wood siding with TSP
- Painted the surface
- Exposed wood trim in Bunkhouse

2500 sq ft of Landscaping and Brush Removal

- Removed fire hazard trees
- Cleared 3 tent pads

12,872 ft of Pest Mitigation

- Sprayed borate solution on:
 - Boathouse interior and exterior
 - Warehouse interior and exterior
 - Oil house exterior
 - Ranger dwelling porch interior
 - District Office interior and exterior

10,000 sq ft of brush removed





Encroaching Soil Removal



Brush Removal



Applying Borate



Campsite Clearing



Floor Restoration



Landscaping Duties

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Cemetery Restoration**Host: City of Ely****Site: City of Ely Cemetery (St. Louis County)****Hitch 1: Thursday, July 2, 2020 – Friday, July 3, 2020****ABOUT THE SITE**

Owned by the City of Ely, the local cemetery has digitized burial records to genealogical research. Northern Bedrock is pleased to have partnered with Ely Cemetery to provide cemetery restoration training for the past several seasons.

HITCH SUMMARY

All Corpsmembers learned how to clean, edge, and reset monuments and gravestones during the training project.

QUANTITATIVE MEASUREMENTS**74 Total Monuments Improved**

74 monuments cleaned

- Saturated stones with water
- Scraped off heavy lichen with plastic putty knives
- Scrubbed the stones with soft-bristle brushes
- Removed lichen from engraved lettering using wooden skewers
- Applied D2 solution and repeated as necessary

5 monuments reset

- Separated the loose tiers of the monument
- Leveled and straightened the lower base using rock bars
- Prepared and cleaned the paired surfaces that were being joined, then applied epoxy in the center
- Placed lead spacers near each corner of the lower paired surface
- Set strips of monument setting compound around the parameter of the lower surface
- Used tripod and hoist as needed to lift the upper section(s) of the stone onto the lower surface (base)
- Trimmed excess monument setting compound pressed out by weight of stone

21 monuments edged

- Dug inch perimeter dug around the ground-level of the stone and the depth of the stone
- Used spades and rock bars to reset stone to level it with the ground using gravel and sand
- Returned sod and dirt around the stone, tamped to stabilize





Before



After



Before



After



Before



After

This project has been financed in part with funds from the State of Minnesota from the Arts and Culture Heritage Fund through Minnesota State Historical Society.

Project: Window Restoration, Masonry Restoration, Landscaping

Host: HistoriCorps and Chequamegon- Nicolet National Forest

Site: Forest Lodge Educational Campus, Cable, WI (Bayfield County)

Hitch 2.1: Saturday, July 11, 2020 – Thursday, July 16, 2020

ABOUT THE SITE

In 1999, the Chequamegon-Nicolet National Forest accepted a gracious donation from Mary Griggs Burke of her 872 acre Forest Lodge estate with an obligation to “provide environmental research and educational programs on or related to the Mary Livingston Griggs Special Management Area.” In 2002, Forest Lodge was placed on the National Register of Historic Places. Since 2013, Forest Lodge has been in a transition period, having been closed to the public and now open—but with very limited facilities—due to the condition of the buildings. Building rehabilitation and preservation is in progress, and public educational programs began in 2016 for the first time in the property’s history. A partnership with Northland College will ensure preservation of the estate’s infrastructure through consistent public use (<https://www.northland.edu/centers/soei/forest-lodge/>).

HITCH SUMMARY

Under the supervision of HistoriCorps, whose mission is “to save and sustain historic places for public benefit through partnerships that foster public involvement, engage volunteers and provide training and education,” the crew worked on a variety of projects, including cleaning a masonry staircase, restoring windows, repointing a masonry pillar, removing old infrastructure and removing brush (<https://www.northland.edu/centers/soei/forest-lodge/>).

QUANTITATIVE MEASUREMENTS

17 windows reglazed and painted

- Removed old glazing
- Removed glass if necessary
- Sanded muttons for new glazing
- Reglazed windows

750 sq ft of masonry steps cleaned

- Cleaned with power waster and removed vegetation

90 sq ft of masonry repointed

- Removed loose mortar
- Repointed at voids

600 sq ft of brush removed

192 sq ft of pipe removed





Masonry - Before



Masonry - After



Steps - Before



Steps - After



Windows - During



Windows - After

Some photos courtesy of HistoriCorps.

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Cleaning and Window Restoration

Host: Duluth Armory Arts & Music Center

Site: Historic Duluth Armory (St. Louis County)

Hitch 2.2: Saturday, July 11, 2020 – Thursday, July 16, 2020

ABOUT THE SITE

The Armory was built in 1915 for the National Guard. It is a three story brick building with a basement and sub-basement. There is a stage and a balcony on the main level with individual rooms on the second and third floors. It has a low-sloping roof with a brick parapet. The armory is listed on the National Register of Historic Places and is a contributing property of the Duluth Commercial Historic District. The building has a beautiful brick facade, recently cleaned. The Armory Arts and Music Center is working hard to raise the funds to continue its restoration <https://www.dulutharmory.org/>.

HITCH SUMMARY

The crew worked on clearing rooms and cleaning many layers of dust and dirt accumulated on the floors. During the hitch, the crew removed a pipe and reglazed windows on the third floor.

QUANTITATIVE MEASUREMENTS

8 windows reglazed

- Removed old glazing
- Removed glass if necessary
- Reglazed windows

137,000 sq ft of structure cleaned

- Cleaned debris, objects and dirt out of the first and second floors





Pipe Removal - Before



Pipe Removal - After



Windows - During



Crew Hard at Work



Cleaning - Before



Cleaning - After

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Window Restoration**Host: Anderson Center for Interdisciplinary Studies****Site: Anderson Center at Tower View Estate, Red Wing, MN (Goodhue County)****Hitch 3.1: Tuesday, July 21, 2020 – Wednesday, July 29, 2020****Technical Specialists: Noelle Copeland – Hayes Window Restoration****Amos Johnson – Hayes Window Restoration****ABOUT THE SITE**

The former estate of Dr. Alexander Pierce Anderson was built between 1915-1921 in a distinct Georgian Revival architectural style. The Tower View estate served as the Anderson family residence, a full-fledged working farm, and as a vibrant research laboratory up until 1941. Dr. AP Anderson, a first generation American of Swedish ancestry, gained worldwide renown for developing the American breakfast cereals "Quaker Puffed Wheat" and "Quaker Puffed Rice". Today the Anderson Center at Tower View is known as one of the top artistic destination points in the upper Mississippi River region. The center has served the artistic community and the citizens of Minnesota through artistic leadership, program development, and support since 1995.

HITCH SUMMARY

The crew restored windows on the main house. Corpsmembers learned window restoration from Technical Specialists Noelle Copeland and Amos Johnson during a day-long intensive workshop. They restored windows by repairing lower sash mechanics, removing deteriorated window glaze, applying new glazing, and then scraping, priming and painting each window.

QUANTITATIVE MEASUREMENTS

22 windows restored

- Numbered each window
- Removed window from jam
- Opened window pockets
- Replaced window sash cord
- Removed old paint
- Removed old glazing
- Prepared wood surfaces for primer
- Applied primer
- Re-glazed windows
- Applied paint
- Returned windows

1 porch door restored

- Fixed door screen
- Stabilized with wood epoxy





Windows - Before



Windows - During



Windows - During



Windows - During



Windows - After



Windows - After

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Scraping and Painting**Host: Chippewa National Forest****Site: CCC Camp Rabideau, Blackduck, MN (Beltrami County)****Hitch 4.1: Tuesday, August 4, 2020 – Wednesday, August 12, 2020****ABOUT THE SITE**

Camp Rabideau, located on 112 acres, represents one of the best-preserved Civilian Conservation Camps in the country. When in operation, 300 men between the ages of 17 and 28 called Camp Rabideau home. From 1945 to 1973, the University of Illinois leased land to develop housing and training facilities for forestry and engineering students. The Chippewa National Forest now operates the site as a hiking and educational center during the summer months. CCC camps were designed to be temporary and thus not built to last. Dedicated leadership from the University of Illinois and Chippewa National Forest has ensured the fifteen original buildings remain standing for today's visitor. Corpsmembers have served at this site multiple times throughout the years. CCC Camp Rabideau continues to be a Corpsmember favorite!

HITCH SUMMARY

The crew scraped and painted one exterior wall of the Mess Hall and barracks and three of the Recreational Hall's exterior walls. The crew swept and cleaned the Educational Center, Mess Hall, and the Infirmary's floors. The original Mess Hall burnt down in the 1930s. The on site bakery was then repurposed into a new mess hall.

QUANTITATIVE MEASUREMENTS

1650 sq ft of old paint removed and new paint applied

- Lead abatement
- Removed nails and staples to create smooth surface
- Primed and painted surface

7210 sq ft of structures cleaned

- Dusted, washed, scrubbed, and disinfected interior surfaces
- Cleaned 4 fans





Mess Hall - Before



Mess Hall -After



Mess Hall - During



Mess Hall - During



Mess Hall - Before



Mess Hall - After

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Cemetery Restoration**Host: Pope County Historical Society****Sites: Lake Ann Cemetery, Lake Reno Reformed Cemetery, East Zion Cemetery, Lake Emily Cemetery, and Pope County History Museum (Pope County)****Hitch 4.2: Tuesday, August 4, 2020 – Wednesday, August 12, 2020****ABOUT THE SITE**

In 1866, the first rail line was erected in Pope County causing a major population spike. As the population grew, several churches and cemeteries were developed. In 1870, the First Lake Reno Reformed Presbyterian Church and Cemetery was built in Reno Township. By 1891, the congregation and church moved to Leven. In 1871, East Zion Lutheran Church was organized. The original church burned down in 1900; the church was rebuilt as a brick structure.

Lake Ann Cemetery is located in Reno Township. John Cooley, an early pioneer donated the land from his farm homestead. The majority of people buried here are related.

The origins of the Lake Emily Cemetery are said to begin with a Baptist church on this site. The records begin with the Union Congregational Church of Lake Emily and the organization of the Lake Emily Cemetery Association on December 7, 1888. The last meeting notes are from May 30, 1902. Several Civil War veterans are among the burials here.

The Pope County Museum, operated by the Pope County Historical Society, is located in Glenwood, Minnesota on the shores of Lake Minnewaska. The museum includes a genealogy library, exhibit galleries, six historic buildings, and a display of agricultural and industrial equipment.

HITCH SUMMARY

A crew cleaned, leveled, and reset cemetery stones and monuments at four cemeteries around Pope County. Northern Bedrock and Pope County Cemeteries hosted a one day a public workshop on cemetery restoration (see page 6). The crew preformed a variety of tasks at the Pope County Courthouse: flooring repair, window restoration, and landscaping.

QUANTITATIVE MEASUREMENTS**Pope County Historical Society - Court House**

2 Windows Restored

- Removed old glazing
- Removed glass if necessary
- Sanded muttons for new glazing

140 sq ft of flooring installed

- Installed tongue and groove flooring



QUANTITATIVE MEASUREMENTS - CEMETERIES

Lake Ann Cemetery

- 23 total monuments improved
- 23 monuments cleaned
 - 3 monuments edged
 - 13 monuments raised/leveled
 - 2 monuments reset

Lake Reno Reformed Cemetery

- 23 total monuments improved
- 20 monuments cleaned
 - 14 monuments raised/leveled
 - 5 monuments reset
 - 6 edged

East Zion Cemetery

- 34 total monuments improved
- 34 monuments cleaned
 - 7 monuments edged
 - 14 monuments raised/leveled
 - 8 monuments reset

Lake Emily Cemetery

- 46 total monuments improved
- 46 monuments cleaned
 - 1 monuments edged
 - 45 monuments raised and leveled
 - 15 monuments reset

Process

Cleaned

- Saturated stones with water
- Scraped off lichen with plastic putty knives
- Scrubbed the stones with soft-bristle brushes
- Removed lichen from lettering using skewers
- Applied D2 solution and repeated as necessary

Edged and leveled

- Perimeter dug around ground-level to depth of the stone
- Used spades and rock bars to reset stone to level
- Back filled with gravel and sand to level
- Returned sod and dirt around the stone

Reset

- Separated the loose levels of the monument
- Leveled and straightened the lower base using rock bars
- Prepared and cleaned the paired surfaces, then applied epoxy
- Placed lead spacers near each cover of the lower paired surface
- Set strips of monument setting compound around the parameter of the lower surface
- Used tripod and hoist as needed to lift the upper section(s) of the stone onto the lower surface (base)
- Trimmed excess monument setting compound pressed out by weight of stone





Lake Ann - Before



Lake Ann - After



Lake Emily - Before



Lake Emily - After



Lake Reno - Before



Lake Reno - After

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.



East Zion Lutheran - Before



East Zion Lutheran - After



Resetting Monument



Lifting Monument



Pope County Courthouse - Before



Pope County Courthouse - After

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Project: Scraping and Painting

Host: Voyageurs National Park

Site: Kabetogama Visitor Center (St. Louis County)

Hitch 5: Tuesday, August 18, 2020 – Wednesday, August 26, 2020

Technical Specialist: Beau Readman

ABOUT THE SITE

The Kabetogama Visitor Center welcomes people to Voyageurs National Park. Situated along the south west edge of Lake Kabetogama, the area has a rich history of boreal education and Civilian Conservation Corps projects.

The Lake Kabetogama Civilian Conservation Corps (CCC) – Minnesota Forestry district lies at the western edge of Kabetogama Lake, near State Route 122. In the 1930s the area comprised District 16 of Kabetogama State Forest. Other common monikers for the district include “West Kabetogama” or “West Kab” developed during the master planning phase of the park when visitor centers were being considered for the east and west ends of the lake. The district contains seven contributing buildings: a 1921 log ranger’s cabin moved by the CCC, a 1935 ranger’s cabin built on the site of the original cabin, an oilhouse, boathouse, warehouse and two privies. The complex contained the administrative office and residence of the forestry ranger, and divisional maintenance and storage facilities (2013 Historic Structures Report/National Register Index Id: 93000479).

HITCH SUMMARY

Two crews scraped and painted the group of buildings behind the Kabetogama Visitors Center including a residence, a fuel shed, a boathouse, and garage. The crew also took a tour of Voyageurs National Park and a few of its other historic sites. Aimee Jorjani, Chair of the national Advisory Council on Historic Preservation, and her son were able to stop by the site to discuss historic preservation with the crews (see page 12)!

QUANTITATIVE MEASUREMENTS

5599 sq ft of old paint removed and new paint applied

- Lead abatement
- Removed nails and staples for smooth surface
- Primed and painted surface





Residence - Before



Residence - After



Rot - Repair



Residence - During



Garage - Before



Garage - After

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Masonry Restoration

Host: City of St. Cloud Parks and Recreation

Site: Riverside Park, St. Cloud, MN (Stearns County)

Hitch 5.5: Tuesday, September 1, 2020 – Friday, September 4, 2020

Hitch 6.1: Thursday, September 10, 2020 - Monday, September 14, 2020

Technical Specialist: Ray Stenglein

ABOUT THE SITE

Riverside Park was established in 1910 by the City of St. Cloud and significantly improved in 1933-1941 under a series of New Deal federal relief projects. This park is located on the east bank of the Mississippi River in Southeast St. Cloud. The park was developed along the bank of the River with its characteristic floodplain and terrace. Park designers responded to, and took advantage of the varied topography and did not fundamentally change it. The Federal Emergency Relief Administration (FERA) in 1933 built the fieldstone stairs and drainage flume that the crews uncovered and cleaned. It is believed that the rocks used to build this structure may have come from "rocks from old river beds near Popple Creek." Many of these stones were split by hand.

HITCH SUMMARY

Corpsmembers worked with technical specialist Ray Stenglein to remove and replace improper mortar, reset missing stones, repoint sections of the stairs and walls, clean out drainage tiles, and clean the stair and wall stones. Corpsmembers and Technical Specialists participated in an outreach program highlighting the history of the park and its historic structures (see page 6).

QUANTITATIVE MEASUREMENTS

715 sq ft of stone reconstructed and repointed

- Removed mismatched and broken pieces of mortar
- Beveled edges of existing mortar
- Mixed and laid new mortar

715 sq ft of stone cleaned

- Cleaned all surfaces using "Revive" acid wash to remove mortar off of stones





Before



After



Rock Numbering



Mortar Removal



During



After

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Scraping and Painting**Host: Morrison County Historical Society****Site: Weyerhaeuser Museum, Little Falls, MN (Morrison County)****Hitch 6.1: Tuesday, September 15, 2020 – Thursday, September 17, 2020****ABOUT THE SITE**

Charles Weyerhaeuser commissioned his house in 1898 on the banks of the Mississippi River by the Little Falls Dam. Clarence H Johnston designed the house and A.D. Harrison built it. Weyerhaeuser moved to Little Falls to help operate the Pine Tree Lumber Company with Richard Musser. In 1975, the house was dedicated and became the new home of the Morrison County Historical Society

SUMMARY

The crew spent two days at the Weyerhaeuser House scraping and painting.

QUANTITATIVE MEASUREMENTS

3213 sq ft of old paint removed and new paint applied

- Removed old paint
- Sanded the surface
- Applied new paint





Before



During



After



After

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Cemetery Restoration**Host: Old Frontenac Cemetery Association****Site: Old Frontenac Cemetery, Frontenac, MN (Goodhue County)****Hitch 6.2: Wednesday, September 9, 2020 - Thursday, September 17, 2020****ABOUT THE SITE**

Frontenac Cemetery, established in 1854, is located within the Florence Township Historic District. The cemetery is unique in its long and narrow layout which ends with the opulent sarcophaguses of the Garrard family. The cemetery fell into disarray until a new cemetery board was formed in 2000. The cemetery has an active board working hard to preserve this historic cemetery and its proud history.

HITCH SUMMARY

The crew worked on resetting, cleaning, and recovering buried gravestones at Frontenac Cemetery. They met many community members everyday (see page 7).

QUANTITATIVE MEASUREMENTS**136 total monuments improved**

136 monuments cleaned

- Saturated stones with water
- Scraped off heavy lichen with plastic putty knives
- Scrubbed the stones with soft-bristle brushes
- Removed lichen from engraved lettering using wooden skewers
- Applied D2 solution and repeated as necessary

41 monuments reset

- Separated the loose levels of the monument
- Leveled and straightened the lower base using rock bars
- Prepared and cleaned the paired surfaces that were being joined, then applied epoxy in the center
- Placed lead spacers near each cover of the lower paired surface
- Set strips of monument setting compound around the parameter of the lower surface
- Used tripod and hoist as needed to lift the upper section(s) of the stone onto the lower surface (base)
- Trimmed excess monument setting compound pressed out by weight of stone

13 monuments edged

- Inch perimeter dug around the ground-level of the stone and the depth of the stone

45 monuments leveled

- Used spades and rock bars to reset stone to level it with the ground using gravel and sand
- Returned sod and dirt around the stones

5 monuments unearthed

- Probed area to find covered stones
- Lift covered stones out of the ground

16 Footstones replaced

- Returned footstones to gravesites using a map or the genealogist





During



Resetting



Before



After



Before



After

Some photos courtesy of Project Host.

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Roof Repair and Log Replacement**Host: Northern Bedrock Historic Preservation Corps****Site: Halfway Ranger Station Historic District, Ely, MN (St. Louis County)****Hitch 7.1: Tuesday, September 22, 2020 – Wednesday, September 30, 2020****Technical Specialist: Terry Horejsi****ABOUT THE SITE**

The Halfway Ranger Station Historic District (HRSHD) is located on the South Kawishiwi River, 10 miles south of Ely, MN. The Historic District consists of seven log buildings constructed by locally based Civilian Conservation Corps companies and three stick framed buildings used by Lakes States Forest Experimental Station (LSFES). The latter started operating as early as 1924, conducting forest research in the area. From at least 1910 until 1950, the site was the location for the Halfway Ranger Station of the Superior National Forest. Management of the site was assumed by the Northern Research Station (formerly LSFES) in 1968, and the buildings were utilized by federal biologists conducting long-term large mammal research. Northern Bedrock Historic Preservation Corps has a Participating Agreement with the Forest Service to preserve the site for its adaptive re-use.

HITCH SUMMARY

Corpsmembers, five Passport in Time volunteers, and Technical Specialist Terry Horejsi completed many different stabilization projects at Halfway Ranger Station. The team installed a new sill log in the warehouse, reroofed the pumphouse and oil house, and stabilized the insectary.

QUANTITATIVE MEASUREMENTS

235 Passport in Time Volunteer Hours

38.3 linear feet of log replaced

- Raised building
- Removed rotten lot
- Prepared new log by planning it down to size
- Notched the ends of the new logs
- Fit new log into space
- Applied backerod and log jam to secure the log
- Painted log to match exterior

3 Windows Reglazed

- Removed window from jam
- Removed old paint and glazing
- Prepared wood surfaces for primer
- Applied primer
- Reglazed windows
- Applied paint
- Reinstalled windows

8.5 linear feet of Fascia replaced

- Lifted the insectary up to stabilization and added to the existing pillars
- Twinned 9 joists for stabilization
- Installed fascia boards on exterior skirt

598 sq ft of roof reroofed

- Removed old shingles and felt
- Repaired or replaced sheathing
- Laid new felt, ice and water shield, and shingles





Insectary Before



Insectary After



Oil Shed During



Oil Shed After



Warehouse During



**Warehouse
Log Replacement After**



**Pump House
Roof Before**



**Pump House
Roof After**

This project has been financed in part with funds from the State of Minnesota from the Arts and Culture Heritage Fund through Minnesota State Historical Society.

Project: Stockade Repair

Host: Grand Portage National Monument

Site: Grand Portage National Monument, Grand Portage, MN (Cook County)

Hitch 7.2: Tuesday, September 22, 2020 – Wednesday, September 30, 2020

Hitch 8.1: Tuesday, October 6, 2020 – Wednesday, October 14, 2020

Technical Specialist: Ron Anderson

ABOUT THE SITE

Grand Portage National Monument is located on the North Shore of Lake Superior within the Grand Portage Ojibwe Reservation and is dedicated to the preservation of the center of fur trade activity and Ojibwe heritage. The site was established as a National Monument in 1960. It explores the partnership between the Grand Portage Ojibwe and the North West Company during the North American fur trade era. The structures on the site are re-creations.

HITCH SUMMARY

The primary project at Grand Portage National Monument was the replacement of stockade whalers. The whalers are the horizontal logs holding together the vertical logs of the stockade that surrounds the historic fur trading post site. The old whaler is cut down from the stockade and measured for a new whaler. Once the new whaler is ready, the vertical logs are placed back up and the new whaler is attached to the vertical pieces with cedar dowels.

Quantitative Measurements

206 linear feet of stockade repairs including 11 whalers, 197 posts, and 212 pegs

- Raked back rocks around posts
- Used Sawzall to cut dowels holding posts to whalers
- Removed posts
- Measured new whaler
- Attached whaler to king post with 8" lag bolts
- Set vertical posts back and connected to whalers with wooden dowels
- Racked rocks back into place

117,652 sq ft of trail maintenance

400 sq ft of dirt moved into interpretive vegetable garden





Stockade Wall - Before



Stockade Wall - After



Whaler Removal



Prepping Whaler



Whaler Installation



Whaler Installation

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Tugboat Restoration**Host: City of Two Harbors – Edna G Tugboat Commission****Site: Edna G. Tugboat, Two Harbors, MN (Lake County)****Hitch 8.2: Tuesday, October 6, 2020 – Wednesday, October 14, 2020****Technical Specialist: Mark Johnston – Historic Design Consultation, LLC****ABOUT THE SITE**

The Edna G. was built in 1896 by the Cleveland Ship Building Company. She was named after Edna Greatsinger, daughter of Jacob Greatsinger, then president of the D & IR Railroad. Her one thousand horsepower engine used twenty-five tons of coal a week. She is 110 feet long and has a 23-foot beam. The Edna G. has seen continuous service at Two Harbors until her retirement, except when she was seized by the U.S. government and sent to the east coast during WWI. There she guided naval vessels and hauled supplies. In 1974, the Edna G. was designated a National Historic Site, as the only steam powered tug operating on the Great Lakes. She was donated to the City of Two Harbors after her retirement in 1981 (<https://traveltheheart.org/entries/edna-g-tugboat/8c71a864-0aae-45ff-9b51-8ddc99ce8678>).

HITCH SUMMARY

A crew worked on the Edna G's tugboat's pilot house windows. This included deconstructing, repairing rot, painting, fitting the glass back, and returning the windows to the tugboat. They also painted the interior and exterior of the window section of the pilot house.

Quantitative Measurement

16 windows restored

- Removed windows from tugboat pilot house
- Repaired rot or made Dutchman repairs on bowed windows
- Removed old paint
- Painted windows
- Returned windows

2126 sq ft of Tugboat painted

58 sections of interior trim and 35 exterior sections of trim restored

- Repaired rot
- Replaced degraded trim
- Repainted





Window Removal



Dutchman Repair



During



After



Before



After



Wood Epoxy Repair

Some photos courtesy of Technical Specialist

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.

Project: Site Preparation**Host: Duluth Children's Museum****Site: Duluth Children's Museum's new space (St. Louis County)****Hitch 9: Wednesday, October 21, 2020 – Sunday, October 25, 2020****ABOUT THE SITE**

The Duluth Children's Museum, established in 1930 by Mabel McKinney Wing as a resource for children and teachers, is the fifth oldest children's museum in the nation. The museum was founded during the Great Depression with the idea that children should have access to educational opportunities beyond the resources of school. The Duluth Children's Museum is currently in the process of moving to a building in the Licoln Park Historic Craft District. Platted in the 19th century, the museum's new home has housed several historic Duluth businesses- a haberdashery, social hall, Bridgeman's Supper Club, and Randy's Cafe <https://www.duluthchildrensmuseum.org/history>.

HITCH SUMMARY

The crew worked on the demolition and cleaning of the new historic home for the Duluth Children's Museum. This included removing deteriorated walls and windows, deconstructing old kitchen appliances, and reorganizing furniture and display cases.

Quantitative Measurements

500 sq ft demolished

- Removed deteriorated walls and window
- Deconstructed kitchen appliances

50.5 sq ft window opening covered

- Removed broken window
- Replaced window with plywood cover





Kitchen - Before



Kitchen - During



Doorway Demolition - Before



Doorway Demolition - After



Window Removal



Plywood Cover

This project has been financed in part with funds from the State of Minnesota from the Arts and Cultural Heritage Fund through the Minnesota Historical Society.