



MODIFICATION OF GRANT OR AGREEMENT

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1. U.S. FOREST SERVICE GRANT/AGREEMENT NUMBER: 15-GN-11091300-109		2. RECIPIENT/COOPERATOR GRANT or AGREEMENT NUMBER, IF ANY:	3. MODIFICATION NUMBER: 011
4. NAME/ADDRESS OF U.S. FOREST SERVICE UNIT ADMINISTERING GRANT/AGREEMENT (unit name, street, city, state, and zip + 4): Chequamegon-Nicolet National Forest Attention: Nicole Peltier 500 Hanson Lake Road, Rhinelander, WI 54501		5. NAME/ADDRESS OF U.S. FOREST SERVICE UNIT ADMINISTERING PROJECT/ACTIVITY (unit name, street, city, state, and zip + 4): Chequamegon-Nicolet National Forest Attention: Adam Felts 500 Hanson Lake Road, Rhinelander, WI 54501	
6. NAME/ADDRESS OF RECIPIENT/COOPERATOR (street, city, state, and zip + 4, county): Wisconsin Department of Natural Resources Attention: Rebecca Diebel P.O. Box 7921, Madison, WI 53707		7. RECIPIENT/COOPERATOR'S HHS SUB ACCOUNT NUMBER (For HHS payment use only):	

8. PURPOSE OF MODIFICATION

CHECK ALL THAT APPLY:	This modification is issued pursuant to the modification provision in the grant/agreement referenced in item no. 1, above.
<input type="checkbox"/>	CHANGE IN PERFORMANCE PERIOD:
<input type="checkbox"/>	CHANGE IN FUNDING:
<input type="checkbox"/>	ADMINISTRATIVE CHANGES:
<input checked="" type="checkbox"/>	OTHER (Specify type of modification): Appendix A - Restoration Projects Operating Plans Year 7; Appendix B - Financial Plan Year 7 (additions and updates); and Appendix C - Restoration Projects Statement of Work Project Areas Year 7

Except as provided herein, all terms and conditions of the Grant/Agreement referenced in 1, above, remain unchanged and in full force and effect.

9. ADDITIONAL SPACE FOR DESCRIPTION OF MODIFICATION (add additional pages as needed):

10. ATTACHED DOCUMENTATION (Check all that apply):

<input checked="" type="checkbox"/>	Revised Scope of Work
<input checked="" type="checkbox"/>	Revised Financial Plan
<input type="checkbox"/>	Other:

11. SIGNATURES

AUTHORIZED REPRESENTATIVE: BY SIGNATURE BELOW, THE SIGNING PARTIES CERTIFY THAT THEY ARE THE OFFICIAL REPRESENTATIVES OF THEIR RESPECTIVE PARTIES AND AUTHORIZED TO ACT IN THEIR RESPECTIVE AREAS FOR MATTERS RELATED TO THE ABOVE-REFERENCED GRANT/AGREEMENT.

11.A. WISCONSIN DNR SIGNATURE Heather Berklund <small>Digitally signed by Heather Berklund Date: 2022.05.24 08:33:48 -05'00'</small> (Signature of Signatory Official)	11.B. DATE SIGNED	11.C. U.S. FOREST SERVICE SIGNATURE PAUL STRONG <small>Digitally signed by PAUL STRONG Date: 2022.05.25 12:42:47 -05'00'</small> (Signature of Signatory Official)	11.D. DATE SIGNED
11.E. NAME (type or print): HEATHER BERKLUND		11.F. NAME (type or print): PAUL I.V. STRONG	
11.G. TITLE (type or print): Chief State Forester		11.H. TITLE (type or print): Forest Supervisor	

12. G&A REVIEW

12.A. The authority and format of this modification have been reviewed and approved for signature by: NICOLE PELTIER <small>Digitally signed by NICOLE PELTIER Date: 2022.05.19 10:09:05 -05'00'</small> NICOLE PELTIER U.S. Forest Service Grants & Agreements Specialist	12.B. DATE SIGNED
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Burden Statement

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Common Stand Exam

Appendix C: Statement of Work

*****Adding 1,942 plots to original Modification 7 proposal****

Table 1: Summary of **Previous Acres within CSE Project**

District	Project Area	Est. No. Stands	Estimated Acres	Est. No. Plots	Data Needed By	Cost Estimate	GNA Agreement
Great Divide**	Morse-Stockfarm	431	14,097	2,315	June 30, 2020	-	Modification #7
Washburn**	Red Pine Rotation	116	6,555	741	June 30, 2020	-	Modification #7
Eagle River-Florence**	Lone Duck	211	3,540	852	June 30, 2020	-	Modification #7
Great Divide	Morse	143	4,846	777	June 30, 2021	\$39,000	Modification #9
Lakewood-Laona	Armstrong Creek	88	4,974	593	July 1, 2022	\$30,000	Modification #10
Great Divide	Stockfarm	136	3,973	674	July 1, 2022	\$34,000	Modification #10
Totals:		367	13,793	2,044	-	\$103,000	

**This workload was mutually canceled due to capacity and contracting issues that were not foreseen. In summary, all workload from Modification #7 was canceled if it wasn't added to Agreement #1, Modification #9.

Table 2: Summary of **Additional Acres**

District	Project Area	Est. No. Stands	Estimated Acres	Est. No. Plots	Data Needed By	Cost Estimate	GNA Agreement
Medford-Park Falls	Medford SW	107	4,775	675	June 30, 2023	\$25,000	Modification #11
Eagle River-Florence	Longrail	74	2,987	532	June 30, 2023	\$20,000	Modification #11
Lakewood-Laona	Armstrong	83	2,431	420	June 30, 2023	\$16,000	Modification #11
Great Divide	Stockfarm	70	1,533	315	June 30, 2023	\$12,000	Modification #11
Totals:		334	11,726	1,942	-	\$73,000	

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: MPF Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
3115	35	38	6
3115	39	39	6
Sub-Total		77	12
3125	19	28	5
3125	35	12	4
3125	30	26	5
3125	23	59	7
3125	12	155	12
3125	13	48	7
3125	24	16	4
3125	29	22	5
3125	7	61	7
3125	4	27	5
3125	8	49	7
Sub-Total		502	68
3126	29	100	10
3126	26	27	5
3126	23	21	5
3126	28	25	5
3126	25	24	5
3126	6	28	5
3126	4	29	5
3126	7	17	4
3126	8	23	5
3126	1	36	6
3126	2	29	5
3126	3	32	6
3126	10	74	8
3126	9	44	7
3126	53	22	5
3126	47	17	4
3126	48	30	5
3126	76	13	4
3126	12	29	5
3126	51	24	5
3126	15	44	7
3126	33	49	7
Sub-Total		737	123
3127	4	33	6
3127	10	50	7

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: MPF Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
3127	13	32	6
3127	12	41	7
3127	17	14	4
Sub-Total		171	30
3134	44	19	4
3134	31	22	5
3134	29	41	7
3134	45	19	4
3134	8	50	7
3134	5	60	8
Sub-Total		212	35
3136	1	83	9
3136	10	61	8
3136	14	122	11
3136	8	79	8
3136	15	37	6
3136	7	183	14
3136	20	85	9
Sub-Total		650	65
3146	12	37	6
3146	14	40	6
3146	21	26	5
3146	22	17	4
Sub-Total		120	21
3147	14	44	7
3147	15	81	9
3147	8	19	4
3147	4	11	4
Sub-Total		155	24
3148	33	37	6
3148	30	36	6
3148	23	15	4
3148	29	22	5
3148	27	57	7
3148	11	82	9
3148	6	84	9
3148	1	27	5

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: MPF Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
Sub-Total		360	51
3149	10	62	8
3149	16	48	7
3149	17	62	8
3149	30	38	6
Sub-Total		210	29
3152	19	59	7
3152	21	35	6
3152	25	23	5
3152	17	24	5
3152	14	45	7
3152	12	53	7
3152	7	48	7
3152	8	61	8
3152	9	19	4
3152	10	40	6
Sub-Total		407	62
3153	12	64	8
3153	10	98	9
3153	37	22	5
3153	28	17	4
3153	5	74	8
3153	53	72	8
3153	55	33	6
Sub-Total		380	48
3154	4	69	8
3154	5	20	4
3154	6	26	5
3154	12	18	4
3154	8	19	4
Sub-Total		151	25
3155	9	37	6
3155	44	14	4
3155	27	28	5
3155	13	81	9
3155	17	75	8
3155	18	91	9

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: MPF Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
Sub-Total		326	41
3156	9	55	7
3156	2	82	9
Sub-Total		137	16
3158	10	35	6
3158	9	19	4
3158	11	46	7
3158	5	78	8
Sub-Total		178	25

Table 3: ERFL Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
3070	2	27	5
3070	3	26	5
3070	4	15	3
3070	6	43	9
3070	7	26	5
3070	8	30	6
3070	9	21	4
3070	10	38	8
3070	11	16	3
3070	13	15	3
3070	15	37	7
3070	18	40	8
3070	22	48	10
3070	25	31	6
3070	26	21	4
3070	28	17	3
Sub-Total		451	89
3071	1	95	15
3071	2	66	13
3071	5	51	10
3071	6	34	7
3071	8	197	15
3071	10	34	7
3071	11	30	6
3071	12	19	4
3071	13	23	5

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: ERFL Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
3071	14	25	5
3071	15	36	7
3071	16	26	5
3071	17	36	7
3071	18	24	5
3071	20	42	8
3071	26	34	7
3071	27	21	4
3071	28	48	10
3071	30	27	6
3071	31	15	3
Sub-Total		883	149
3072	3	36	7
3072	5	33	7
3072	7	41	8
3072	9	22	4
3072	18	34	7
3072	19	85	15
3072	22	15	3
3072	26	45	9
3072	27	51	10
3072	29	44	9
3072	30	35	7
3072	31	21	4
3072	33	34	7
Sub-Total		496	97
3073	1	26	5
3073	3	31	6
3073	10	23	5
3073	13	25	5
3073	14	35	7
3073	15	17	4
3073	16	38	8
3073	17	23	5
3073	20	44	9
3073	21	33	7
3073	22	39	8
Sub-Total		334	69
3074	2	44	9

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: ERFL Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
3074	5	40	8
3074	6	42	8
3074	7	26	5
3074	8	24	5
3074	10	70	14
3074	11	43	9
3074	13	123	15
3074	14	140	15
3074	22	27	5
Sub-Total		580	93
3075	1	18	4
3075	2	144	15
3075	3	45	9
3075	5	36	7
Sub-Total		243	35

Table 3: LKLN Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
5034	1	53	7
5034	3	14	4
5034	4	11	4
5034	5	12	4
5034	16	55	7
5034	20	11	4
5034	25	9	3
5034	26	9	3
5034	29	10	3
5034	30	33	6
5034	33	12	4
5034	34	8	3
5034	36	30	5
5034	39	16	4
Sub-Total		283	61
5036	8	14	4
5036	10	55	7
5036	12	18	4
5036	13	43	7
5036	14	10	3
Sub-Total		140	25

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: LKLN Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
5037	8	9	3
5037	10	8	3
5037	12	28	5
5037	15	35	6
5037	17	9	3
5037	18	19	4
5037	19	17	4
5037	20	16	4
5037	23	12	4
5037	24	19	4
Sub-Total		172	40
5068	1	29	5
5068	3	21	5
5068	4	39	6
5068	5	60	7
5068	6	58	7
5068	7	92	9
5068	9	13	4
5068	10	11	4
5068	11	24	5
Sub-Total		347	52
5071	2	14	4
5071	5	19	4
Sub-Total		33	8
5072	2	13	4
5072	3	161	13
5072	5	40	6
5072	9	12	4
5072	12	24	5
5072	15	48	7
Sub-Total		298	39
5075	20	84	9
5075	23	18	4
5075	24	7	3
5075	25	76	8
5075	26	29	5
5075	27	74	8
Sub-Total		288	37

Estimated Start: In Progress

Estimated Completion: June 2023

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Table 3: LKLN Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
5207	16	66	8
5207	17	128	12
5207	18	33	6
5207	19	14	4
5207	21	22	5
Sub-Total		263	35
5221	1	48	7
5221	4	18	4
5221	11	40	6
5221	12	13	4
5221	13	41	7
5221	15	10	3
5221	17	23	5
5221	18	13	4
5221	19	16	4
5221	20	9	3
Sub-Total		231	47
5224	1	39	6
5224	3	15	4
5224	8	33	6
5224	9	10	3
5224	10	24	5
5224	11	8	3
5224	12	12	4
5224	15	11	4
5224	21	14	4
5224	23	22	5
5224	26	52	7
5224	27	32	6
5224	28	23	5
5224	31	59	7
5224	33	10	3
5224	35	12	4
Sub-Total		376	76

Table 3: GD Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
0116	2	13	4
0116	5	12	4

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: GD Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
0116	8	14	4
0116	14	23	5
0116	23	30	5
0116	24	16	4
0116	26	32	6
Sub-Total		141	32
0136	1	7	3
0136	5	18	4
0136	7	233	16
0136	8	30	5
0136	10	12	4
0136	12	5	3
0136	13	7	3
0136	16	10	3
0136	21	11	4
0136	24	12	4
Sub-Total		346	49
0137	2	12	4
0137	3	5	3
0137	12	24	5
0137	15	6	3
0137	17	3	3
0137	20	5	3
0137	21	4	3
0137	22	12	4
0137	24	22	5
0137	27	50	7
0137	28	14	4
0137	29	25	5
0137	30	12	4
0137	32	28	5
0137	33	14	4
Sub-Total		232	62
0138	1	6	3
0138	2	5	3
0138	3	19	4
0138	7	24	5
0138	8	14	4
0138	9	18	4

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 3: GD Stand Details, Modification #11			
Compartment	Stand	Acres	# of Plots
0138	12	113	10
0138	14	20	4
0138	15	12	4
0138	16	31	6
0138	20	18	4
0138	21	38	6
0138	28	10	3
0138	29	13	4
0138	31	12	4
0138	32	9	3
0138	33	4	3
0138	38	10	3
0138	39	25	5
Sub-Total		401	82
0139	1	24	5
0139	5	18	4
0139	14	6	3
0139	15	25	5
0139	20	5	3
Sub-Total		77	20
0160	10	9	3
0160	11	48	7
0160	13	42	7
0160	15	36	6
0160	16	21	5
0160	17	13	4
0160	18	22	5
0160	21	24	5
0160	27	16	4
Sub-Total		230	46
0161	13	18	4
0161	28	37	6
0161	29	11	4
0161	30	31	6
0161	36	11	4
Sub-Total		107	24

Estimated Start: In Progress

Estimated Completion: June 2023

Good Neighbor Supplemental Project Agreement 1 – Modification 11

More detailed maps, specifications, data codes, etc. will be provided when needed.

Updated 02/18/2022

Karl Welch

Agreement No. 15-GN-11091300-109

Prescription Writing

APPENDIX C: Statement of Work

*****Update and Addition to Modification 8*****

The U.S. Forest Service has identified timber sales for which detailed silvicultural prescriptions are needed by December 31, 2022.

Prescriptions will be written using the 2015 Chequamegon-Nicolet Rx Template, incorporating all applicable Forest Plan Standards and Guidelines, as well as any additional requirements set forth in the project-level NEPA document.

Table 1: Summary of Previous Acres within Prescription Writing Project

District	Timber Sale	Project	Stands	Acres	Data Needed By	Cost Estimate	GNA Agreement
Medford-Park Falls	Hammerhead	Park Falls Hdwds EIS	7	255	6/30/2020	\$48,700	Modification #8
Medford-Park Falls	Spring Creek	Park Falls Hdwds EIS	10	419			
Great Divide	Labyrinth	Black Torch EA	7	231			
Great Divide	Lunker	Black Torch EA	22	581			
Great Divide	Midnight Moose	Black Torch EA	18	560			
Great Divide	Haugenss Heroes	Cheq Red Pine EA	6	456			
Medford-Park Falls	Gypsy	Park Falls Hdwds EIS	4	193	6/30/2021	\$34,420	Modification #9
Medford-Park Falls	North Lynne	Park Falls Hdwds EIS	4	187			
Great Divide	Ember	Black Torch EA	9	253			
Great Divide	Moose Junction	Black Torch EA	19	537			
Great Divide	Witch Hunt	Black Torch EA	13	379			
Totals:			119	4,051	-	\$83,120	

The tasks and general timeline for this project are as follows:

Table 2: Summary of Additional Acres

District	Timber Sale	Project	Stands	Acres	Data Needed By	Cost Estimate	GNA Agreement
Great Divide	Black Fish	Black Torch EA	15	372	12/31/2022	\$18,000	Modification #11
Great Divide	Brunet Aspen	Black Torch EA	16	260			
Great Divide	Swanson Creek	Black Torch EA	9	272			
Totals:			40	904	-	\$18,000	

Botanical Surveys, Assessments, and Natural Area Site Visits FY22 and Beyond

Appendix C: Statement of Work

*****Updated from Modification 8*****

I. Objectives:

Visit known rare plant locations in natural areas and perform site condition “checkup” on the Chequamegon-Nicolet National Forest (CNNF). Determine current status of rare plant population while also documenting condition of natural area on a “checkup” form. A small number of sites will need natural community inventory documentation.

- **Chequamegon Rare Plant Survey** (project 1): DNR’s Bureau of Natural Heritage Conservation (NHC) will visit natural areas on the CNNF, specific location will be outlined in the workload tables below. There are two objectives for this work. First, they will complete “checkups” of each natural area, focusing on identifying disturbances (natural or anthropogenic) to the site. Secondly, NHC will revisit known rare plant populations throughout the district and document on NHC’s rare plant reporting form.
- **Nicolet Rare Plant Survey** (project 2): NHC will visit natural areas on the CNNF, specific location will be outlined in the workload tables below. There are two objectives for this work. First, they will complete “checkups” of each natural area, focusing on identifying disturbances (natural or anthropogenic) to the site. Secondly, NHC will revisit known rare plant populations throughout the district and document on NHC’s rare plant reporting form.
- **Aquatic Plant Lake Survey** (project 3): NHC will conduct Aquatic Plant surveys (on Lakes) that are within/adjacent to designated natural areas on the Eagle River-Florence and Laona-Lakewood Ranger District. This will allow for early detection/rapid response of invasive aquatic plants and will also provide an assessment of aquatic integrity.
- **Natural Area Survey** (project 4): Conduct ecological assessment of 20 designated natural areas in the Eagle River-Florence and Laona-Lakewood Ranger Districts, as well as an additional 20 designated natural areas in the Chequamegon Zone. Use standard NHI methodology.
- **Updated Conservation Assessment** (project 5): Update conservation assessments for selected species. Distribution, Abundance, and Status: update Appendix A in existing assessments, and review existing conservation assessment to ensure it is still accurate.

II. Tasks and Timeline:

Deliverables:

- Project 1 & 2: The NHC will submit a “checkup” form for each site visited on the CNNF. The focus of these forms is to identify any disturbances, particularly from human use but also natural disturbances such as windthrow. NHC will also submit rare plant reports on any CNNF sensitive species revisited in 2019, including any previously unknown populations. NHC will use a rare plant form designed by NHC. The CNNF will provide:
 - Chequamegon Rare Plant Survey:

Estimated Start: In Progress

Estimated Completion: Aug. 2025

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- A list and map of natural area of interest
 - Locator map of natural areas on the Chequamegon side
 - Rare plant trend information
 - List of rare plants that occur in natural areas on the area of interest
 - Geodatabase with rare plant occurrences
 - Template/form for reporting natural area conditions
 - Past natural area check-up forms for reference
 - A USFS Yale key for access (requires the State to sign a USDA-Forest Service Personal Custody Property Receipt and acknowledge financial responsibility for the value of items lost or damaged).
- Nicolet Rare Plant Survey:
 - Locator map of natural areas on Nicolet side
 - List of rare plants that occur in natural area of interest
- Project 3: NHC will provide a list of aquatic species and relative abundance of that species for each lake surveyed (noting invasive species). The CNNF will provide:
 - Surveys for both non-native and native plants in 91 lakes greater than 10 acres that are within or adjacent to designated natural areas on the Eagle River-Florence Ranger Districts. List of lakes to be surveyed.
- Project 4: NHC will complete NHI community inventory forms for the sites that are surveyed. The CNNF will provide:
 - Botanical/community inventory in 20 natural areas that currently lack adequate documentation.
 - List of natural areas needing community inventory
- Project 5: (Conservation Assessments) NHC will update the Botrychium mormo conservation assessment providing current information about distribution, abundance, and status. Also, assessment Appendix A should be updated, and existing conservation assessment should be reviewed to ensure it is still accurate.

The tasks and general timeline for this project are as follows:

Time	Description
Winter/early Spring annually	Forest Service will determine which stands to survey and provide data and information to cooperators
Late Spring/Summer/early annually	State will conduct rare plant surveys and inspect Natural Areas of interest.
December 31 st annually	Final Report Due

Deadline for work: December 31st, of given year in workload table below.

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 1: Specific Workload from GNA Botanical Projects on the CNNF				
District	Project Area	Acres	Cost Estimate	Timeline or Priority
Medford – Park Falls <i>Project 1</i> *NEW*	Rare Plant monitoring in Natural Areas (MA 8 EFG - RNA, SMA, Old Growth areas); also, complete monitoring “checkup” at each natural area visited	Checkups on 54 natural areas (28 PF, 25 Med). Monitoring of 54 rare plant sites, NNIS surveys, etc.	\$28,000 8 weeks	2022
Forest-wide <i>Project 5</i> *NEW*	Calypso bulbosa and Cypripedium arietinum Conservation Assessment Updates	2 Conservation Assessments	\$10,000	2023
Eagle River – Florence & Lakewood – Laona <i>Project 3</i> *Mod. 9*	Aquatic Plant Surveys of lakes (NNIS and native plants)	21 lakes	\$16,000 (3 weeks, 2-person crew)	2023
Eagle River Florence & Lakewood – Laona <i>Project 4</i> *Mod. 9*	Botanical and community assessment and documentation	20 existing natural areas (which lack adequate inventory/documentation)	\$11,000	2023 (5 of 20 completed in 2020)
Forest-wide (part of a statewide effort) <i>Projects 1 & 2</i> *NEW*	Peatlands Bryophyte Inventory	Inventory high, medium, and low-quality examples of two peatland types	\$28,000	2024
Chequamegon Zone <i>Project 4</i> *NEW*	Botanical and community assessment and documentation	20 existing natural areas (which lack adequate inventory/documentation) (Sites TBD)	\$15,000	2024

Estimated Start: In Progress
Estimated Completion: Aug. 2025

Good Neighbor Supplemental Project Agreement 1 – Modification 11

Table 1: Specific Workload from GNA Botanical Projects on the CNNF				
District	Project Area	Acres	Cost Estimate	Timeline or Priority
Nicolet Zone <i>Project 3</i> *NEW*	Aquatic Plant Surveys of lakes (NNIS and native plants)	21 lakes	\$16,000 (3 weeks, 2-person crew)	2024
Great Divide <i>Project 1</i> *NEW*	Rare Plant monitoring in Natural Areas (MA 8 EFG - RNA, SMA, Old Growth areas); also, complete monitoring “checkup” at each natural area visited	Details will be forthcoming	\$41,000	2025
COMPLETED Projects:				
Lakewood-Laona <i>Project 2</i> DONE	Rare Plant monitoring in Natural Areas (MA 8 EFG - RNA, SMA, Old Growth areas); also, complete monitoring “checkup” at each natural area visited	Complete work on sites that were not accessible in 2019 due to windstorms. There are 68 natural areas (42,680 acres) with approximately 120 rare plant locations on this district. Of these, 50 sites and approximately 50 rare plant populations were not able to be surveyed in 2019 due to the storm.	\$28,000	2021 Completed
Species Range-wide <i>Project 5</i> DONE	Botrychium mormo Conservation Assessment Update	1 Conservation Assessment Update	\$4,500	2020 Complete
Washburn <i>Project 1</i> DONE	Rare Plant monitoring in Natural Areas (MA 8 EFG - RNA, SMA, Old Growth areas); also, complete monitoring “checkup” at each natural area visited	Check-ups on 16 natural areas. Surveys of 29 known rare plant populations.	\$15,000	2020 Completed
Eagle River - Florence <i>Project 2</i> DONE	Rare Plant monitoring in Natural Areas (MA 8 EFG - RNA, SMA, Old Growth areas); also, complete monitoring “checkup” at each natural area visited	Check-ups on 57 natural areas; Surveys of 163 rare plant populations.	\$28,400	2019-2020 Completed
Revised: Adam Felts and Justin Bournoville on 4/11/2022				

Estimated Start: In Progress
 Estimated Completion: Aug. 2025

III. Point of Contacts:

- Forest Service:
 - CNNF Forest Botanist (currently vacant and should be filled shortly)
 - Adam Felts, 715-362-1335, Special Authority Program Manager
- Wisconsin DNR: Kevin Doyle, 608-416-3377, KevinF.Doyle@wisconsin.gov

IV. Maps/Diagrams:

Detail provided when needed.

Agreement No. 15-GN-11091300-109

Project Areas & Treatment Activities FY19 Timber Stands List Correction

Appendix C: Statement of Work

The stand list below was developed in December 2018 and January 2019. Then the stands list was given, through email, to the State in February 2019 to begin implementation planning. At the same time the Forest Service and the State was drafting an agreement modification to formally include the stand information for tracking or accountability purposes. With many moving parts to this agreement, the stands list was mistakenly omitted from Modification 7 to agreement 15-GN-11091300-109 (modification executed in March 2019). While the Forest Service and the State expected these timber stands where within the Good Neighbor Authority agreement, both agencies tracked and accounted for the implementation of these stands through the regular, end-of-year performance reporting. The stand information below was included in Natural Resource Management (NRM) summary reporting in FY19, FY20, and FY21.

To correct this stand data omission mistake, the below stands (the original stands list given to the State in January 2019) will be formally included in agreement 15-GN-11091300-109 with this modification.

The State shall conduct the following forest restoration activities, as needed, for the stands listed below:

- Timber sale establishment (silvicultural prescription preparation, harvest boundary layout, timber designation, cruising, and contract development)
- Timber sale administration (advertising, bid awarding, sale area inspections, scaling, billing, contract enforcement)
- Reforestation establishment as needed and agreed to during the silvicultural prescription process (site preparation, seeding, planting, release, and periodic regeneration monitoring)

January 2019 Timber Stands

Medford/Park Falls Ranger District Stands cleared through NEPA									
NEPA Document	Area Name	Stand ID	Acres	Timber Type	Treatment	Subtotal Acres	Subtotal Volume (MBF)		
Park Falls Hardwoods	Elk West	9130101144029	4	White Spruce	Salvage Clear Cut		55		
Park Falls Hardwoods	Elk West	9130101144037	185	Northern Hardwoods	Selection		1850		
Park Falls Hardwoods	Elk West	9130101144010	163	Northern Hardwoods	Selection		1630		
Park Falls Hardwoods	Elk West	9130101144012	49	Northern Hardwoods	Selection		490		
Park Falls Hardwoods	Elk West	9130101144018	36	Northern Hardwoods	Selection		360		
Park Falls Hardwoods	Elk West	9130101144021	58	Northern Hardwoods	Selection		580		
sub-Total -----						494	4965		
Medford/Park Falls SUB-TOTAL									
						494	4,965		
Great Divide Ranger District Stands cleared through NEPA									
NEPA Document	Area Name	Stand ID	Acres	Timber Type	Treatment	Subtotal Acres	Subtotal Volume (MBF)		
Chequamegon Red Pine Thinning	Scout	9130200388006	39	Red Pine	Thinning		195		
Chequamegon Red Pine Thinning	Scout	9130200388019	76	Red Pine	Thinning		380		
Chequamegon Red Pine Thinning	Scout	9130200388031	17	Red Pine	Thinning		85		

Chequamegon Red Pine Thinning	Scout	9130200388028	29	Red Pine	Thinning		145
Chequamegon Red Pine Thinning	Scout	9130200388002	46	Red Pine	Thinning		230
Chequamegon Red Pine Thinning	Scout	9130200388022	46	Red Pine	Thinning		230
sub-Total						253	1265
Chequamegon Red Pine Thinning	Cache	9130200387010	232	Red Pine	Thinning		1160
Chequamegon Red Pine Thinning	Cache	9130200388036	15	Red Pine	Thinning		75
Chequamegon Red Pine Thinning	Cache	9130200389022	36	Red Pine	Thinning		180
Chequamegon Red Pine Thinning	Cache	9130200387040	11	Red Pine	Thinning		55
Chequamegon Red Pine Thinning	Cache	9130200389002	17	Red Pine	Thinning		85
Chequamegon Red Pine Thinning	Cache	9130200388018	86	Red Pine	Thinning		430
Chequamegon Red Pine Thinning	Cache	9130200389004	109	Red Pine	Thinning		545
Chequamegon Red Pine Thinning	Cache	9130200388040	25	Red Pine	Thinning		125
Chequamegon Red Pine Thinning	Cache	9130200389023	13	Red Pine	Thinning		65
sub-Total						544	2720
Chequamegon Red Pine Thinning	Royal Pine	90202003410013	28	Red Pine	Thinning		140
Chequamegon Red Pine Thinning	Royal Pine	90202003330033	4	Red Pine	Thinning		20
Chequamegon Red Pine Thinning	Royal Pine	90202003400008	16	Red Pine	Thinning		80

Chequamegon Red Pine Thinning	Royal Pine	90202003420003	9	Red Pine	Thinning			45
Chequamegon Red Pine Thinning	Royal Pine	90202003420037	6	Red Pine	Thinning			30
Chequamegon Red Pine Thinning	Royal Pine	90202003400016	28	Red Pine	Thinning			140
Chequamegon Red Pine Thinning	Royal Pine	90202003430046	2	Red Pine	Thinning			10
Chequamegon Red Pine Thinning	Royal Pine	90202003410017	12	Red Pine	Thinning			60
sub-Total							105	525
Black Torch	Bluegill Trap	90202004700037	5	Red Pine	Thinning			25
Black Torch	Bluegill Trap	90202004690003	18	Red Pine	Thinning			90
Black Torch	Bluegill Trap	90202004700008	30	Red Pine	Thinning			150
Black Torch	Bluegill Trap	90202004700010	17	White Pine	Thinning			85
Black Torch	Bluegill Trap	90202004700012	6	Aspen	Clearcut			60
Black Torch	Bluegill Trap	90202004700017	21	White Pine	Thinning			105
Black Torch	Bluegill Trap	90202004700018	24	Oak-White Pine	Thinning			96
Black Torch	Bluegill Trap	90202004700026	25	Red Pine	Thinning			125
Black Torch	Bluegill Trap	90202004700011	15	Red Pine	Thinning			75
Black Torch	Bluegill Trap	90202004690001	16	Red Pine	Thinning			80
Black Torch	Bluegill Trap	90202004700021	13	Mixed Upland HW	Shelterwood			78
Black Torch	Bluegill Trap	90202004700007	37	Oak	Shelterwood			222
Black Torch	Bluegill Trap	90202004700030	10	Aspen	Clearcut			100
Black Torch	Bluegill Trap	90202004700001	18	Aspen	Clearcut			180
Black Torch	Bluegill Trap	90202004700025	8	Aspen-Spruce Balsam	Clearcut			80
Black Torch	Bluegill Trap	90202004700025	22	Aspen-Spruce Balsam	Clearcut			220
sub-Total							285	1771
Great Divide SUB-TOTAL							1187	6281
Washburn Ranger District Stands cleared through NEPA								

NEPA Document	Area Name	Stand ID	Acres	Timber Type	Treatment	Subtotal Acres	Subtotal Volume (MBF)
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500202003	16	Red Pine	Thinning		96
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500202005	27	Red Pine	Thinning		162
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500204019	10	Red Pine	Thinning		60
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500208003	62	Red Pine	Thinning		372
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500208004	41	Red Pine	Thinning		246
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500208007	37	Red Pine	Thinning		222
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500208019	39	Red Pine	Thinning		234
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500208024	44	Red Pine	Thinning		264
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500208027	40	Red Pine	Thinning		240
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500208028	46	Red Pine	Thinning		276
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500209002	24	Red Pine	Thinning		144
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500209005	13	Red Pine	Thinning		78
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500209014	47	Red Pine	Thinning		282
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500209015	44	Red Pine	Thinning		264
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500209017	45	Red Pine	Thinning		270

Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500219006	12	Red Pine	Thinning		72	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500220015	58	Red Pine	Thinning		348	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500220027	48	Red Pine	Thinning		288	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500221047	45	Red Pine	Thinning		270	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500221048	27	Red Pine	Thinning		162	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222002	18	Red Pine	Thinning		108	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222003	12	Red Pine	Thinning		72	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222004	18	Red Pine	Thinning		108	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222007	8	Red Pine	Thinning		48	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222009	42	Red Pine	Thinning		252	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222012	90	Red Pine	Thinning		540	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222023	32	Red Pine	Thinning		192	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222034	15	Red Pine	Thinning		90	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222038	29	Red Pine	Thinning		174	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500222040	45	Red Pine	Thinning		270	
Chequamegon Red Pine Thinning	Washburn GNA 2019	09130500223009	13	Red Pine	Thinning		78	
sub-Totals -----							1047	6282

Morgan Lake EA	Stanley	9130303100020	32	Aspen	Clearcut	240	
Morgan Lake EA	Stanley	9130303100021	5	Northern Hardwoods	Improvement	20	
Morgan Lake EA	Stanley	9130303100024	3	Red Pine	Thinning	15	
Morgan Lake EA	Stanley	9130303100027	13	Aspen	Clearcut	100	
Stanley sub-Totals -----						308	1430
Morgan Lake EA	Somerset	9130303081001	8	Aspen	Clearcut	60	
Morgan Lake EA	Somerset	9130303081002	21	Red Pine	Clearcut	160	
Morgan Lake EA	Somerset	9130303081009	17	Red Pine	Thinning	60	
Morgan Lake EA	Somerset	9130303081011	54	Aspen-Spruce-Fir	Clearcut	405	
Morgan Lake EA	Somerset	9130303081024	50	Red Oak	Shelterwood	300	
Morgan Lake EA	Somerset	9130303081031	12	Red Pine	Thinning	45	
Morgan Lake EA	Somerset	9130303081032	9	Red Pine	Thinning	35	
Morgan Lake EA	Somerset	9130303081039	6	Red Pine	Thinning	25	
Morgan Lake EA	Somerset	9130303096004	15	Northern Hardwoods	Selection	75	
Morgan Lake EA	Somerset	9130303096007	11	Northern Hardwoods	Selection	55	
Morgan Lake EA	Somerset	9130303096009	7	White Pine	Thinning	25	
Morgan Lake EA	Somerset	9130303096012	8	Paper Birch	Shelterwood	50	
Morgan Lake EA	Somerset	9130303096013	3	Red Pine	Thinning	15	
Morgan Lake EA	Somerset	9130303096017	8	Paper Birch	Shelterwood	50	
Morgan Lake EA	Somerset	9130303096018	10	Northern Hardwoods	Selection	50	
Morgan Lake EA	Somerset	9130303096022	2	Aspen-Spruce-Fir	Overstory Removal	15	
Morgan Lake EA	Somerset	9130303096037	31	Northern Hardwoods	Selection	155	
Morgan Lake EA	Somerset	9130303096038	14	Aspen-Spruce-Fir	Overstory Removal	85	
Somerset sub-Totals -----						286	1665
Eagle River/Florence SUB-TOTAL						977	5010
Lakewood/Laona Ranger District Stands cleared through NEPA							

NEPA Document	Area Name	Stand ID	Acres	Timber Type	Treatment	Subtotal Acres	Subtotal Volume (MBF)
Townsend	Hardwood	9130405184002	298	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184002	22	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184005	127	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184005	17	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184009	147	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184009	26	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184013	42	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184016	18	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184016	13	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405184017	69	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405185009	9	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405185009	10	Northern Hardwoods	Selection		
Townsend	Hardwood	9130405185010	11	Aspen	Thin		
sub-Totals -----						808	
Plantation 1	Dalton 2	9130404156002	6	Red pine	thin		
Plantation 1	Dalton 2	9130404156004	163	Red pine	thin		
Plantation 1	Dalton 2	9130404156007	135	Red pine	thin		
Plantation 1	Dalton 2	9130404156011	24	Red pine	thin		
sub-Totals -----						329	
Lakewood ESHP	Aspen	9130405162013	42	Aspen	clearcut		
Lakewood ESHP	Aspen	9130405162020	31	Aspen	clearcut		
Lakewood ESHP	Aspen	9130405162020	34	Aspen	clearcut		
Lakewood ESHP	Aspen	9130405163011	40	Aspen	clearcut		
Lakewood ESHP	Aspen	9130405163011	37	Aspen	clearcut		
Lakewood ESHP	Aspen	9130405163015	4	Aspen	clearcut		
Lakewood ESHP	Aspen	9130405163018	16	Aspen	clearcut		
Lakewood ESHP	Aspen	9130405163018	2	Aspen	clearcut		

Seasonal Restoration Fieldwork

Appendix A: Operating Plan

*****New Project*****

I. Project Description:

This project's main purpose is to expand the restoration efforts on the Chequamegon-Nicolet National Forest (CNNF). This project will supply additional capacity and support to restoration activities on the National Forest that catalyze achievement of the Land and Resources Management Plan's desired future conditions. The additional restoration capacity will include, but is not limited to, silviculture, ecology, botany, forestry, wildlife biology, soils, and watershed health related activities. For example, these could include accomplishing timber reforestation, restoring suitable game species habitat, and enhancing game fish habitat on streams and lakes. These activities would be ones that would not be able to be accomplished through appropriated or normal Forest Service funding mechanisms. In other words, the activities would not occur if GNA funding was not available.

II. Forest Service Shall:

- Continue to provide leadership and oversight to the State to carry out the implementation of the restoration goals and objectives outlined in Appendix C of this agreement.
 - a. This may include supplying data, maps, or supporting activities implemented by the State.
- Host, supply, and serve as a work leader for implementation of Appendix C activities.
- Support restoration efforts on National Forest land, supporting the goals of landscape scale conservation.
- Review annual accomplishment report and, in a timely manner, suggest needed correction for following years statement of work, if applicable

III. State Shall:

- Work with Forest Service personnel to identify restoration activities to be accomplished within the bounds of this agreement and funding estimates.
- Determine the implementation method by providing personnel, creating agreements with other agencies, or contracting out work to the private sector.
- Coordinate with Forest Service local personnel on project details to be implemented via GNA on their Districts, ensuring a full understanding of the project's local goals, objectives, and anticipated delivery outcomes.
- Provide a final report to the Forest Service, detailing the year's accomplishments

IV. Goals:

- Increase the pace in which the desired future condition is achieved within the Chequamegon-Nicolet National Forest's Land and Resources Management Plan.
- Strengthen relationships amongst members of the forestry community to continue to promote ecosystem health and sustainability across landscapes.

VII. Long Term Benefits:

Long-term benefits include continued collaboration between the Chequamegon-Nicolet National Forest (CNNF) and the State of Wisconsin to maintain successful management of natural resources and shared working relationship that benefits the resources being managed and the public.

These activities would promote additional timber stand resiliency, improvement of wildlife habitat, and reduction of invasive species that harm those resources. In turn, this will enhance recreational opportunities, sustain production of forest resources, maintain soil productivity through soil erosion reduction, and improve water quality. Local communities within and around the CNNF will be the biggest beneficiary of this additive work as they rely upon these resources to support their livelihood.

Seasonal Restoration Fieldwork

Appendix C: Statement of Work

New Project

I. Objectives:

Accomplish additional silviculture, ecology, botany, forestry, wildlife biology, soils, and watershed health related activities across the Chequamegon-Nicolet National Forest to catalyze achievement of the Land and Resources Management Plan’s desired future conditions.

Activities could include but are not limited to:

- **Silviculture:** Complete timber stand improvement, tree planting, seedling protection, seedling/sapling monitoring, seed collection, compartment stand exam, and forest health related activities.
- **Ecology and Botany:** Complete non-native invasive species inventory, monitoring, and control activities. Conduct rare plant surveys and protect rare plant populations. Assist in seed collection and habitat restoration activities, enhance native plant and pollinator habitat.
- **Forestry:** Assist with timber marking, land line boundary marking, and timber sale preparation.
- **Wildlife/Fisheries:** Complete habitat improvement activities and habitat restoration work.
- **Soils:** Assist with monitoring, classification, and inventory activities.
- **Watershed:** Conduct watershed improvement activities to improve overall watershed function.

II. Tasks and Timeline:

The Forest Service agrees to financially support the restoration activities outlined in the detailed table below. The expenditure will not exceed \$75,000 for this ‘trial’ or ‘pilot’ year. This financial support will be evaluated annually within the performance reporting mechanisms in the GNA agreement. Adjustments to this support will be made accordingly.

Annually, the workload for this project will include a work plan report or similar. The work plan report is suggested to include both direct work plan accomplishments and narrative reports on important areas of work accomplished deemed by mutual agreement. This annual report will aid the State in documenting the accomplishments of this project in supporting Forest Service goals, objectives, and guidelines.

The tasks and general timeline for this project are as follows:

Timeline	Task Description
March – April	Suggested time to review applications and hire seasonal staff for the upcoming field season.
May – September	Seasonal field staff placed on the Chequamegon-Nicolet National Forest and assist Forest Service (FS) staff with accomplishing tasks and projects. Coordinator works with FS staff and seasonal employees to coordinate work tasks.
September – November	State and FS staff discuss program accomplishments and make program adjustments for the following year when necessary.

Estimated Start: May 2022

Estimated Completion: 2022 Field Season

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Details for 2022 calendar year accomplishment include:

District	Project Area	Acres	Cost Estimate	Timeline or Priority
Great Divide	Silviculture, wildlife, and ecology project needs across the district.	50 acres of Timber Stand Improvement activities, 100 acres of wildlife habitat acres, and 100 acres of non-native invasive species inventory, monitoring, and treatment.	\$25,000	2022
Medford-Park Falls	Wildlife, Fisheries, silviculture, and ecology project needs across the district	200 acres of watershed and fisheries habitat improvement. 100 acres of non-native invasive species inventory and monitoring. 100 acres of wildlife habitat improvement. 20 acres of timber stand improvement activities.	\$50,000	2022

III. Point of Contacts:

- Forest Service:
 - Matt Bushman (Forest Silviculturist), 715-292-7811, matthew.bushman@usda.gov
 - Adam Felts (Special Authorities Program Manager), 715-362-1335, adam.felts@usda.gov

- Wisconsin DNR:
 - Rebecca Diebel (Policy Advisor, WDNR), 608-444-5774, Rebecca.diebel@wisconsin.gov

- UW-Madison:
 - Tricia Gorby (UW-Madison, Division of Extension, Natural Resources Institute Director), tricia.gorby@wisc.edu
 - University of Wisconsin-Madison Research and Sponsored Programs, 21 N. Park Street, Suite 6401, Madison, WI 53715; contracts@rsp.wisc.edu, 608-262-3822

IV. Maps/Diagrams:

Provided upon request.

Estimated Start: May 2022

Estimated Completion: 2022 Field Season

Groundwater and Geological Resource Inventory and Investigations Phase 2

Appendix C: Statement of Work

Updating Contact Information from Modification 10

I. Project Description: Conduct groundwater and geological resource inventories and investigations of identified groundwater/surface water management issues within the Chequamegon-Nicolet National Forest (CNNF). Prepare reports and maps and make this information available to the Forest Service and public.

Phase 2 includes two years of work starting in FY2022. A separate statement of work will be provided for future phases.

II. Forest Service Shall:

1. Coordinate with WGNHS on project activities to support field work and deliverables.
2. Provide peer review for draft reports.

III. State Shall:

Complete the proposed project activities for three projects: 1) Drummond area water level investigation, 2) Investigation of hydrogeology near the Bend deposit in Taylor County, and 3) Groundwater level monitoring. See below for study tasks and timeline. The projected project end date for this phase of the work is June 2023.

IV. Goals:

1. Seepage lakes near Drummond WI, including Pigeon Lake, have historically fluctuated widely and currently are at a record high. The goals of this study are to improve our understanding of the groundwater-surface water system to manage and protect the water resource.
2. The Bend copper-gold ore deposit, located in Taylor County, is a potentially viable deposit for mining in an area with fairly little hydrogeologic data. An improved understanding of the local hydrogeology and surface water-groundwater interactions will improve the effectiveness of future management and protection of water resources in this region. The goals of this project are to collect baseline data and characterize the hydrogeology near the Bend ore deposit to contribute to the existing body of knowledge of hydrogeology in Northern Wisconsin and to inform management decisions and future environmental assessments should a mine be proposed.
3. Measure, report, and archive groundwater levels in monitoring wells; TA-217 and nested piezometers PR-088 and PR-089 (deep bedrock well).
4. Protect and manage the groundwater/surface water resource and associated ecosystems.

V. Objectives:

1. For the Drummond area seepage lakes: Characterize the hydrogeologic system around Pigeon Lake and evaluate potential future water level conditions. The deliverable for this phase is an interim project report.

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2. For the Bend deposit study: 1) Characterize the groundwater and surface water system near the Bend deposit to inform the protection of water resources in this area, with a focus on characteristics relevant to a potential future mine; 2) collect and publish baseline water chemistry, water table, and stream flow data; and 3) contribute to our understanding of groundwater-surface water interactions in this part of the state where there is little hydrogeologic data. This is planned to be a 3-year project. The project deliverables will consist of an interim summary of work (included in this phase) and a final report in the following phase (year 3). A stream gage installed as part of this project is intended to continue with funding from GNA in future years.
3. Continue funding for US Geological Survey to measure, report, and archive groundwater levels in monitoring wells; TA-217 (Bend well) in the Medford Unit, Taylor County, and nested piezometers PR-088 and PR-089 (deep bedrock well) in the Park Falls Unit, Price County. The water level data will be published on the statewide monitoring level network website.

VI. Tasks and Timeline:

The tasks and general timeline are as follows.

State FY 2021 – FY2022 (April 1, 2021 – June 30, 2022): Total Budget \$209,913

1. Bend hydrogeology (year 1 of 3): Budget \$134,696 (includes approximately \$25K installation and \$15.5K annual maintenance and reporting for stream gage)
 - a. Install 3-4 water-table monitoring wells in the glacial deposits overlying and near the Bend ore body. Monitor water levels and temperature in the wells.
 - b. Install long-term streamflow gaging station on the Yellow River at FR112/Yellow River Rd (completed by USGS). Real-time precipitation and discharge will be recorded on USGS website.
 - c. Monitor stream stage and temperature both at gaging station and at second location on the river. Collect periodic streamflow measurements at second location.
 - d. Collect baseline water quality data for both groundwater and surface water.
 - e. If Aquila plans more exploratory drillholes, coordinate with them to collect geophysical logs, packer tests, and flow logging.
2. Drummond area water level investigation: Budget \$70,228
 - a. Continue to monitor groundwater wells and sample water quality
 - b. Conduct geophysical surveys to evaluate bedrock depth and subsurface changes in key locations
 - c. Evaluate lake water balance
 - d. Prepare interim project report for USFS
3. Bayfield Peninsula: Budget \$4,989
 - a. Continue to monitor groundwater wells and precipitation
 - b. Interpret water quality samples and collected data

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4. Groundwater level monitoring: Budget included in Task 2
 - a. USGS will continue to monitor TA-217 (Bend well) in the Medford Unit, Taylor County, and nested piezometers PR-088 and PR-089 (deep bedrock well) in the Park Falls Unit, Price County from July 2021 to June 2023.

State FY 2023: Total budget \$150,822

1. Bend hydrogeology (year 2 of 3): Budget \$81,147 (includes approximately \$15.5K annual maintenance and reporting for stream gage)
 - a. Continue monitoring
 - i. Water levels and temperature in the groundwater wells.
 - ii. Real-time precipitation and discharge (completed by USGS).
 - iii. Stream stage and temperature both at gaging station and at second location on the river. Collect periodic streamflow measurements at second location.
 - iv. Baseline water quality data for both groundwater and surface water (quarterly sampling).
 - b. Evaluate groundwater interactions with the North Fork Yellow River using mini-piezometers, seepage meters, or similar instruments.
 - c. If river is accessible, collect spatially-dense stream data via canoe.
 - d. Conduct pumping tests in the groundwater wells to investigate hydraulic properties.
 - e. Provide an interim summary of data and work to USFS. This will consist primarily of monitoring data and a summary of the conceptual hydrogeologic model of the groundwater and stream system. A final report will be completed in the following phase.
2. Drummond area water level investigation: Budget \$69,675
 - a. Continue to monitor groundwater wells
 - b. Evaluate patterns in precipitation and lake levels with respect to future conditions through water balance analysis
 - c. Continue to analyze results of data collection
3. Groundwater level monitoring: Budget included in Task 2
 - a. USGS will continue to monitor TA-217 (Bend well) in the Medford Unit, Taylor County, and nested piezometers PR-088 and PR-089 (deep bedrock well) in the Park Falls Unit, Price County from July 2021 to June 2023.
 - b. Add Bayfield Peninsula wells to monitoring network.

For context, the below table inserts the above specific tasks with the tasks expected to be completed during the full lifetime of the project.

Time	Description	Phase
FY 2020 Projects	Bayfield Peninsula hydrogeology field data collection core drilling and cross section as part of WGNHS Pleistocene geologic mapping inventory for Bayfield County.	1
	Drummond area seepage lakes investigation of water level fluctuations. Install piezometers, collect data.	1
	Continue annual funding for US Geological Survey to measure, report, and archive groundwater levels in monitoring wells; TA-217 (Bend	1

Estimated Start: In Progress
 Estimated Completion: June 2023

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	well) in the Medford Unit, Taylor County, and nested piezometers PR-088 and PR-089 (deep bedrock well) in the Park Falls Unit, Price County. The water quality/level data will be published on the statewide monitoring level network website.	
FY 2021 Projects	2nd year Bayfield Peninsula hydrogeology data analysis bore hole(s) and cross section as part of WGNHS Pleistocene geologic mapping inventory for Bayfield County.	1
	2nd year Drummond area seepage lakes investigation water level fluctuations.	1
	Measure, report, archive monitoring wells; TA-217, PR-088 and PR-089.	1
	Begin Bend site groundwater baseline study (April 2021).	2
FY 2022 Projects	Measure, report, archive monitoring wells; Two Bayfield Highlands wells (names TBD), TA-217, PR-088 and PR-089.	2
	3 rd year Bayfield Peninsula hydrogeology data collection	2
	3rd year Drummond area seepage lakes investigation water level fluctuations.	2
	1 st (full) year Bend Site groundwater baseline study.	2
FY 2023 Projects	Measure, report, archive monitoring wells; TA-217, PR-088 and PR-089, and Bayfield Peninsula well(s).	2
	4th year Drummond area seepage lakes investigation water level fluctuations.	2
	2 nd year Bend Site groundwater baseline study.	2
FY 2024 Projects	Measure, report, archive monitoring wells; TA-217, PR-088 and PR-089, and Bayfield Peninsula well(s).	
	5th year Drummond area seepage lakes investigation water level fluctuations.	
	3 rd year Bend site groundwater baseline study	
	Begin investigation of surface water/groundwater interactions in the Elvoy and Brule creeks watershed located within the Eagle River/Florence Ranger District in Vilas and Forest Counties.	
FY 2025 Projects (Completed by Aug. '25)	Measure, report, archive monitoring wells; TA-217, PR-088 and PR-089, and Bayfield Peninsula well(s).	
	Measure, report, archive Yellow River stream gage.	
	6 th year Drummond area seepage lakes investigation water level fluctuations.	
	2 year investigation of surface water/groundwater interactions in the Elvoy and Brule creeks watershed located within the Eagle River/Florence Ranger District in Vilas and Forest Counties.	

IV. Point of Contacts:

- **Forest Service: Megan Luick, 715-362-1330, MeganLuick@usda.gov**
- **Wisconsin DNR: Rebecca Diebel, 608-444-5774, Rebecca.diebel@wisconsin.gov**
- **Wisconsin Geological and Natural History Survey: Grace Graham, 608-263-4125 grace.graham@wisc.edu**

Estimated Start: In Progress
 Estimated Completion: June 2023

Attachment: **Exhibit B**

USFS Agreement No.: **15-GN-11091300-109**
 Cooperator Agreement No.:
 Mod. No.: **Year 7 (FY22) Estimates**

Financial Plan Matrix: Note: All columns may not be used. Use depends on source and type of contribution(s).

COST ELEMENTS	FS CONTRIBUTIONS		STATE CONTRIBUTIONS + Rev		(e) Total
	(a7) Noncash	(b) Cash to State	(c) Noncash	(d7) Rev (from FS tbr) Project Costs	
Direct Costs					
Salaries/Labor	\$79,675.00	\$0.00	\$0.00	\$303,000.00	\$382,675.00
Travel	\$0.00	\$0.00	\$0.00	\$30,000.00	\$30,000.00
Other	\$12,405.50	\$0.00	\$0.00	\$15,000.00	\$27,405.50
Supplies/Materials	\$0.00	\$0.00	\$0.00	\$30,200.00	\$30,200.00
Contracting	\$0.00	\$0.00	\$0.00	\$255,000.00	\$255,000.00
General Prog. Inc. Cost	-	-	-	\$669,214.00	\$669,214.00
Subtotal	\$92,080.50	\$0.00	\$0.00	\$1,302,414.00	\$1,394,494.50
Coop Indirect Costs		\$0.00	\$0.00	\$0.00	\$0.00
FS Overhead Costs	\$11,970.47				\$11,970.47
Total	\$104,050.97	\$0.00	\$0.00	\$1,302,414.00	\$1,406,464.97
				Total Project Value:	

Program Income Earned	Estimated	Actual
	\$1,808,875.00	

Program Income Balance	\$178,202.15
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Program Income Project Cost Analysis, Column Yr7 (d7)

Program Income Carry over		-\$328,258.85
Program Income	Estimates	Actuals
Timber Value Received	\$1,875,000	\$0
NFF Payment	\$38,000	\$0
KV Fund Payments	\$0	\$0
Local Road Aid Payments	\$28,125	\$0
SUBTOTAL	\$66,125	\$0
Program Income Total Earned	\$1,808,875	\$0

GNA Timber Expenses

Salaries (FTE & LTE)	\$202,833	
Fringe (FTE & LTE)	\$92,167	
SubTotal DNR Salaries/Labor	\$295,000	
DNR Travel	\$30,000	
DNR Supplies & Services	\$30,000	
Contracting Expenses	\$20,000	
Other	\$0	

Timber Expenses SubTOTAL COST	\$375,000	\$0
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Program Income Projects

General Estimates Not Yet Categorized	\$669,214	
Salaries (FTE & LTE)	\$8,000	
Fringe (FTE & LTE)	\$0	
SubTotal DNR Salaries/Labor	\$8,000	
DNR Travel	\$0	
DNR Supplies & Services	\$200	
Contracting Expenses	\$235,000	
Other	\$15,000	
Program Income SubTOTAL COST	\$927,414	\$0

Program Income Balance	\$178,202.15	
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Carry Over + PI Earned+ Timb. Exp. + PI Exp. =

WORKSHEET FOR

FS Non-Cash Contribution Cost Analysis, Column (a7)

Use this worksheet to perform the cost analysis that supports the lump sum figures provided in the matrix. NOTE: This worksheet auto populates the relevant and applicable matrix cells.

Cost element sections may be deleted or lines may be hidden, if not applicable. Line items may be added or deleted as needed. The Standard Calculation sections provide a standardized formula for determining a line item's cost, e.g. $\text{cost/day} \times \# \text{ of days} = \text{total}$, where the total is calculated automatically. The Non-Standard Calculation sections provide a write-in area for line items that require a calculation formula that is other than the standardized formulas, e.g. instead of salaries being calculated by $\text{cost/day} \times \# \text{ of days}$, costs may be calculated simply by a contracted value that is not dependent on days worked, such as $1 \text{ employee} \times \$1,200/\text{contract} = \$1,200$. Be sure to review your calculations when entering in a Non-Standard Calculation, and provide a brief explanation of units used to make calculation, e.g. '1 month contract,' on a line below the figures.

Salaries/Labor				
Standard Calculation				
Job Description		Cost/Day	# of Days	Total
Forest Silviculturist (Overhead/Accomplishr		\$416.00	5.00	\$2,080.00
District Silviculturist (Rx Review)		\$335.00	35.00	\$11,725.00
District TMA (Contract Review/Outyear Plai		\$335.00	25.00	\$8,375.00
Program Database Inputs (Accomplishmen		\$280.00	35.00	\$9,800.00
Appraisal/Billing/Harvest Reporting		\$280.00	15.00	\$4,200.00
Quality Control/Monitoring		\$1,600.00	3.00	\$4,800.00
Quality Control Walkthroughs		\$280.00	5.00	\$1,400.00
Program Management Resource work		\$416.00	30.00	\$12,480.00
Program Management Agreements		\$375.00	20.00	\$7,500.00
Data/File Sharing and Preparation		\$280.00	8.00	\$2,240.00
Implementation Resource Review/Outyear		\$335.00	35.00	\$11,725.00
Assessment/Identification of Project Area		\$335.00	10.00	\$3,350.00
Total Salaries/Labor				\$79,675.00

Travel				
Standard Calculation				
Travel Expense	Employees	Cost/Trip	# of Trips	Total
				\$0.00
				\$0.00

Non-Standard Calculation				
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Total Travel	\$0.00
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Equipment				
Standard Calculation				
Piece of Equipment	# of Units	Cost/Day	# of Days	Total
Fleet	5.00	\$28.85	86.00	\$12,405.50
Non-Standard Calculation				

Total Equipment	\$12,405.50
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Supplies/Materials				
Standard Calculation				
Supplies/Materials		# of Items	Cost/Item	Total
				\$0.00

Non-Standard Calculation

Total Supplies/Materials **\$0.00**

Other				
Standard Calculation				
Item		# of Units	Cost/Unit	Total
				\$0.00

Non-Standard Calculation

Total Printing **\$0.00**

Contracting				
Standard Calculation				
Item		# of Units	Cost/Unit	Total
				\$0.00

Non-Standard Calculation

Total Other **\$0.00**

Subtotal Direct Costs	\$92,080.50
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Forest Service Overhead Costs

Current Overhead Rate	Subtotal Direct Costs		Total
13.00%	\$92,080.50		\$11,970.47
Total FS Overhead Costs			\$11,970.47

TOTAL COST	\$104,050.97
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