



Invasive Species Management Plan (ISMP): Eradication of Wineberry at 4-Mile Point Preserve

A Framework for Control

Purpose:

The Invasive Species Management Plan (ISMP) template is a working document to help guide invasive species treatments after early identification and surveys have been conducted. The guide includes steps for post treatment monitoring and restoration over a five-year period. The ISMP template is designed to treat a specific infestation at a given location. Multiple ISMP can be deployed over a larger geography. In such a case a more comprehensive plan should be considered when prioritizing multiple treatments in a park or preserve like setting.

The framework built into this template helps to identify all the variables that are more likely to result in more successful treatments with lasting effects into the future. All management strategies should consider an [Integrated Pest Management \(IPM\) approach and a Framework of Response](#). Invasive species management plans should be independently reviewed by a project manager or a Capital Region PRISM Coordinator.

Section 1: Project Summary

The project summary provides an overview of the site with a description including contact information, location, current land use, species present, and other related parcel characteristics. The project description identifies the treatment target. Survey maps and reports are included in this segment, potential land managers/owners are identified with approval. Map(s) outlining the project site and infestation area are clearly marked. Elements from preexisting survey reports can be used to supplement this segment. All permits are secured and completed before commencement of treatment. [State Environmental Quality Review \(SEQR\)](#) checklist should be completed at this stage. SEQR requires the sponsoring or approving governmental body to identify and mitigate the significant environmental impacts of the activity it is proposing or permitting.

The project summary includes a step to determine if the proposed work is feasible and justifiable by completing an [Invasive Plant Management Decision Analysis Tool \(IPMDAT\)](#) simulation, when applicable. The Capital Region PRISM recommends using the tool to help determine if an invasive plant control project is likely to be successful and if it warrants an investment of their agency's resources. To justify spending resources on an invasive plant control project: The invasive species must cause serious environmental or economic harm or harm to human health.

In addition, work in a specific geography can be assessed to see if it falls into an area relevant for protection on the New York Invasive Species Prioritization Models. These models were created to highlight areas of the state that have high ecological significance, a high risk of spread of invasive(s) into the area and a high value according to their protected status. The models can be used to help guide and justify invasive species efforts. The map can be accessed on the [Capital Region PRISM Prioritization](#) page.

Finally, it is strongly encouraged to determine if conservation priority species or habitat are located in or near the geographic area where the proposed work will occur. The Capital Region PRISM suggests the use of the New York State Department of Environmental Conservation (NYSDEC) "[Environmental Resource Mapper](#)" to identify significant natural communities, and rare plants or animals. The NYSDEC has also developed a list of [threatened and endangered](#)





[species](#) of New York State and a list of species with the [greatest conservation need](#) that should be referenced before starting treatment to ensure management will not cause any harm to these species.

Section 2: Implementation Summary

The implementation summary will provide guidance on treatment methods with best management practices, monitoring, and restoration strategies. After a 3-5-year period, a new assessment using the ISMP template may need to be conducted based on changing site conditions and parcel priorities.

Section 3: Project Implementation

The implementation segment contains treatment timelines and post season summaries. Always consider the phenology of the invasive target when deploying a treatment to be effective. A post season summary will be completed to document successes, failures, and needed adjustments to the management approach. Future treatment timelines will reflect such reassessment needs.

Saving Plans

Please submit your Invasive Species Management Plan to the Capital Region PRISM for review. ISMP will be saved in an online repository for historical purposes and future considerations. All survey and treatment data associated with the project should be reported in the [New York iMap Invasives](#) online data base. Please contact the PRISM for survey report forms.

Section 1: Project Summary

Project Name	Wineberry Eradication at Four Mile Point Preserve
Location	Four Mile Point Preserve; 169 4 Mile Point Rd, Coxsackie, NY 12051
Latitude / Longitude	42.31707 °, -73.78657 °
Project Manager / Title	Sam Schultz, Terrestrial Invasive Species Coordinator
Project Manager Contact	ss986@cornell.edu
Owner Name / Title	Scenic Hudson; Daniel Smith
Owner Contact	dsmith@scenichudson.org

Site Description: Provide existing conditions of the site, including species present, ecologic condition, current land use, stakeholders and or historical uses.

Four Mile Point Preserve is a 7.6-acre riverfront preserve with trail to an observation platform meant to provide recreation opportunities.

Project Description: Provide a clear and concise of the work to be conducted, conservation targets and desired future conditions.

Plants are being pulled by hand using grubber tools to eradicate the wineberry from the preserve to protect biodiversity at this site.

Overall Project Size:

0.25 acres

SEQR Form Complete? [Add as an Appendix]

N/A





Does the work proposed fall into a well-defined area of ecologic significance and risk as indicated on the NY Invasive Species Prioritization Models?

[Optional Step/Include in Map Section]

Invasive Plant Management Decision Analysis Tool ([IPMDAT](#)) Recommendations. [Optional Step/Include in Map Section]

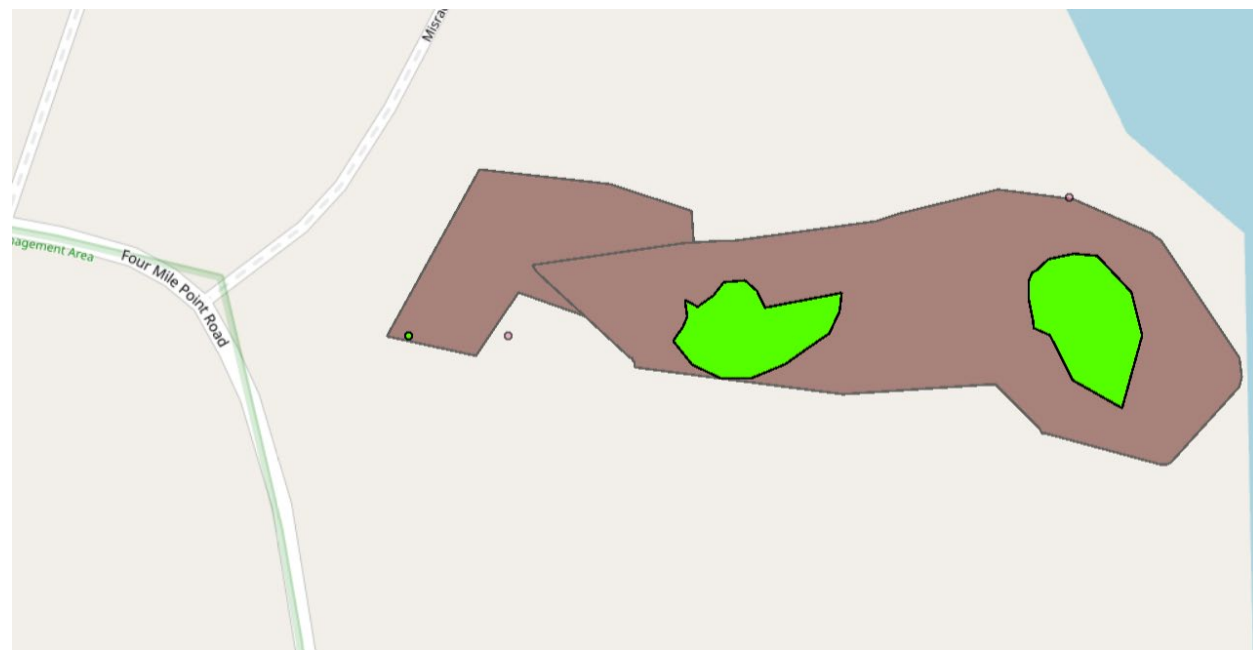
Pesticide Use Proposed?

Aquatic Pesticide Permits: <https://www.dec.ny.gov/chemical/8530.html>

Pesticide Laws and Regulations: <https://www.dec.ny.gov/chemical/112881.html>

List Associated Master Plan if relevant to a larger project: [link file URL or attach as an Appendices]

Map: Develop a map of the project area showing the geography and extent of infestation. Partners are strongly encouraged to use [iMap Invasives](#) or to define survey and treatment areas using points and/or polygons.



Map showing the 2nd year presence polygons (green) and the searched and treated area (brown).

Section 2: Implementation Summary

This section provides descriptions of any treatment methods, restoration, and monitoring efforts occurring over the course of the plan.

Treatment: Describe in detail treatment methods selected for the site and why they were chosen along with any alternatives considered. [Best management practice(s) should be outlined and sourced] State the estimate the number or abundance of species to be treated/removed and method of disposal. Describe the level of anticipated site disturbance and mitigation. If using a pesticide, provide the chemical name and application method.





Plants are being pulled by hand using grubber tools to eradicate the wineberry from the preserve to protect biodiversity at this site.

Restoration: Briefly explain the revegetation efforts that will occur. If doing active restoration, make sure to attach a list of native plants to be used, seed mixes, and any preferred nurseries. Describe when native seeds will be collected on site. If a separate restoration plan was developed, reference it here. If not actively restoring, explain why. (ex. Allelopathy, native seed source in place, minimal disturbance).

N/A

Post-Monitoring: Explain the monitoring procedure, when it will occur and why, and who will complete it.

Post-Monitoring occurs each year by the Terrestrial Coordinator and seasonal staff of the Capital Region PRISM during the month of June before fruit matures. Surveying will occur around the infested area and then removal will take place.

Treatment, Post-Treatment (Monitoring), and Restoration Calendar: Briefly outline when treatment, restoration efforts, and post treatment monitoring are anticipated to occur with a date range. When completed check the box next to the targeted date range with an initial.

	Year 1	Year 2	Year 3	Year 4	Year 5
Summer	<input type="checkbox"/> 6/6/19 Grubbing to remove roots and hand pulling	<input type="checkbox"/> 7/15/20 Grubbing to remove roots and hand pulling	<input type="checkbox"/> 6/17/21 Grubbing to remove roots and hand pulling	<input type="checkbox"/> 6/14/22 Grubbing to remove roots and hand pulling	<input type="checkbox"/> 7/11/23 Grubbing to remove roots and hand pulling
	Year 6	Year 7	Year 8	Year 9	Year 10
Summer	<input type="checkbox"/> 6/27/24 Grubbing to remove roots and hand pulling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes: Make notes as necessary and keep the documentation simple. Base work off of plant phenology for treatments and revegetation. Document why things did not work with recommended adjustments in the post season report.





Section 3: Project Implementation - Year 1: 2019

Treatment Schedule: Plan out when and how treatments will occur. Attach and reference separate spreadsheet if more space is needed for additional species. Include the [tier level](#) and [threat ranking](#) of each species.

Target Species Tier and Rank	Area Infested (acres)*	Species Abundance (%)	Target Goal (%)	Treatment Window (MM/DD/YY)	Treatment Method	Disposal Method
Wineberry (<i>Rubus phoenicolasius</i>) Tier 3, Very High	0.21	N/A	100	06/06/19	Grubbing, hand pulling	Solarize and trash

*If infestation is linear, use miles to measure "area infested"

Post Season Report

End-of-Year Summary:

Explain any successes, failures, or needed adjustments. Including restoration, missed treatments, not monitoring, etc.

N/A

Adjustments Needed:

Explain any changes to be made for future years and update treatment restoration and calendars.

Reminder: if the project changes drastically (i.e., switch from manual control to chemical control) it may require a new SEQR review.

N/A

Year 1 Notes:

N/A





Section 3: Project Implementation - Year 2: 2020

Treatment Schedule: Plan out when and how treatments will occur. Attach and reference separate spreadsheet if more space is needed for additional species. Include the [tier level](#) and [threat ranking](#) of each species.

Target Species Tier and Rank	Area Infested (acres)*	Species Abundance (%)	Target Goal (%)	Treatment Window (MM/DD/YY)	Treatment Method	Disposal Method
Wineberry (<i>Rubus phoenicolasius</i>) Tier 3, Very High	0.21	N/A, Dense	100	07/15/20	Grubbing, hand pulling	Left on site

*If infestation is linear, use miles to measure "area infested"

Post Season Report

End-of-Year Summary:

Explain any successes, failures, or needed adjustments. Including restoration, missed treatments, not monitoring, etc.

Used a hand grubber tool to free the roots and hand pulled all plants seen in the areas where the removal occurred last year. We walked a perimeter around the previous infestation to ensure all plants regenerating from the leftover seed bank we found and pulled. Mature plants were bagged and taken to solarize.

There was a notable difference in regeneration following last year's removal. Areas that contained mature overgrown patches of wineberry in 2019 only contained seedlings that were <3" tall and sparsely scattered. Area near the rock cliff is seeing very little wineberry regrowth and instead is full of native *Rubus spp.*, black swallow-wort, and some native meadow plants.

Adjustments Needed:

Explain any changes to be made for future years and update treatment restoration and calendars.

Reminder: if the project changes drastically (i.e., switch from manual control to chemical control) it may require a new SEQR review.

Continue management

Year 2 Notes:

Amount removed (# bags, # plants, # mature, # seedlings): 7 mature, 90 seedlings, 1 bag

Time spent on removal: 1 hour

Treatments were uploaded to iMapInvasives





Section 3: Project Implementation - Year 3:2021

Treatment Schedule: Plan out when and how treatments will occur. Attach and reference separate spreadsheet if more space is needed for additional species. Include the [tier level](#) and [threat ranking](#) of each species.

Target Species Tier and Rank	Area Infested (acres)*	Species Abundance (%)	Target Goal (%)	Treatment Window (MM/DD/YY)	Treatment Method	Disposal Method
Wineberry (<i>Rubus phoenicolasius</i>) Tier 3, Very High	0.25	5%-25%	100	06/17/21	Grubbing, hand pulling	Solarize and trash

*If infestation is linear, use miles to measure "area infested"

Post Season Report

End-of-Year Summary:

Explain any successes, failures, or needed adjustments. Including restoration, missed treatments, not monitoring, etc.

Used a hand grubber tool to free the roots and hand pulled all plants seen in the areas where the removal occurred last year. We walked a perimeter around the previous infestation to ensure all plants regenerating from the leftover seed bank we found and pulled.

There was a notable difference in regeneration following the second year's removal. The first two wineberry locations were set back and becoming overgrown. There were more bags of wineberry removed this year due to in 2020 leaving plants on site, however, there were less total pulled. Area near the rock cliff is seeing very little wineberry regrowth and instead is full of native *Rubus* spp., black swallow-wort, and some native meadow plants. A small additional patch was found behind the shed along the trail.

Adjustments Needed:

Explain any changes to be made for future years and update treatment restoration and calendars.

Reminder: if the project changes drastically (i.e., switch from manual control to chemical control) it may require a new SEQR review.

Continue monitoring and management.

Year 3 Notes:

Amount removed (# bags, # plants, # mature, # seedlings): 2 bags
Time spent on removal: 2 hours
Is follow-up needed? Yes
Were treatments uploaded to iMapInvasives? Yes





Section 3: Project Implementation - Year 4: 2022

Treatment Schedule: Plan out when and how treatments will occur. Attach and reference separate spreadsheet if more space is needed for additional species. Include the [tier level](#) and [threat ranking](#) of each species.

Target Species Tier and Rank	Area Infested (acres)*	Species Abundance (%)	Target Goal (%)	Treatment Window (MM/DD/YY)	Treatment Method	Disposal Method
Wineberry (<i>Rubus phoenicolasius</i>) Tier 3, Very High	0.0873	5%-25%	100%	06/14/22	Grubbing, hand pulling	Solarize and trash

*If infestation is linear, use miles to measure "area infested"

Post Season Report

End-of-Year Summary:

Explain any successes, failures, or needed adjustments. Including restoration, missed treatments, not monitoring, etc.

Used a hand grubber tool to free the roots and hand pulled all plants seen in the areas where the removal occurred last year. We walked a perimeter around the previous infestation to ensure all plants regenerating from the leftover seed bank we found and pulled.

Considerably less plants compared to previous years. Post-treatment data entered via the Post-treatment survey application in Survey123.

Adjustments Needed:

Explain any changes to be made for future years and update treatment restoration and calendars.

Reminder: if the project changes drastically (i.e., switch from manual control to chemical control) it may require a new SEQR review.

Continue monitoring and management

Year 4 Notes:

Amount removed (# bags, # plants, # mature, # seedlings): 2 bags

Time spent on removal: 2 hours

Is follow-up needed? Yes

Were treatments uploaded to iMapInvasives? Yes





Section 3: Project Implementation - Year 5: 2023

Treatment Schedule: Plan out when and how treatments will occur. Attach and reference separate spreadsheet if more space is needed for additional species. Include the [tier level](#) and [threat ranking](#) of each species.

Target Species Tier and Rank	Area Infested (acres)*	Species Abundance (%)	Target Goal (%)	Treatment Window (MM/DD/YY)	Treatment Method	Disposal Method
Wineberry (<i>Rubus phoenicolasius</i>) Tier 3, Very High	0.0805	25% - 49%	100%	7/11/2023	Grubbing and handpulling	Larger plants left to airdry on site, smaller plants trashed

*If infestation is linear, use miles to measure "area infested"

Post Season Report

End-of-Year Summary:

Explain any successes, failures, or needed adjustments. Including restoration, missed treatments, not monitoring, etc.

A new patch of the Wineberry was detected outside of the previous treatment area, closer to the parking lot of the preserve. The plants were very established, and the patch was dense and tangled within a large cluster of oriental bittersweet. Plants were mature and fruiting.

Grubbing is producing great results and a reduction in regrowth of plants. Areas of previous treatment had few stems with about 15-20 per patch.

Adjustments Needed:

Explain any changes to be made for future years and update treatment restoration and calendars.

Reminder: if the project changes drastically (i.e., switch from manual control to chemical control) it may require a new SEQR review.

Continue to monitor and manage on an annual basis, prior to fruit set if possible.

Year 5 Notes:

Amount Removed: 3 bags plus about 100 stems left onsite.
Time spent on removal: 2 hours, 5 people
Is follow up needed?: Yes, annual follow-up treatment recommended.
Were treatments uploaded to iMapInvasives? Yes





Section 3: Project Implementation - Year 6: 2024

Treatment Schedule: Plan out when and how treatments will occur. Attach and reference separate spreadsheet if more space is needed for additional species. Include the [tier level](#) and [threat ranking](#) of each species.

Target Species Tier and Rank	Area Infested (acres)*	Species Abundance (%)	Target Goal (%)	Treatment Window (MM/DD/YY)	Treatment Method	Disposal Method
Wineberry (<i>Rubus phoenicolasius</i>) Tier 3, Very High	0.6645 acres	Previously treated areas <5% New population detected was 51%- 75%	100%	06/27/2024	Grubbing and hand pulling	All plants solarize and trash
Wineberry (<i>Rubus phoenicolasius</i>) Tier 3, Very High	0.1 acre	<5%	100%	08/05/24	Grubbing and hand pulling	All plants left to airdry

*If infestation is linear, use miles to measure "area infested"

Post Season Report

End-of-Year Summary:

Explain any successes, failures, or needed adjustments. Including restoration, missed treatments, not monitoring, etc.

New populations of wineberry were found in the parking lot and on the other side of the preserve by the pond. A thorough survey throughout the preserve was conducted via transects. All plants that were found were removed. 5 PRISM staff and Scenic Hudson seasonal staff member was present.

Areas of previous treatments had just 1-5 stems per patch. Additional surveys were conducted on Vosburgh Swamp WMA property neighboring the property.

During 2nd visit, only 3 PRISM technicians were present, and 6 plants were detected.

Adjustments Needed:

Explain any changes to be made for future years and update treatment restoration and calendars.

Reminder: if the project changes drastically (i.e., switch from manual control to chemical control) it may require a new SEQR review.

This project will be re-evaluated for continued management at this site. The amount of wineberry surrounding the preserve has greatly increased and the areas where wineberry has been removed are either bare ground or filling in with invasive species (oriental bittersweet and common buckthorn).

If treatments continue, it would be helpful if PRISM staff bring either a weedwhacker or brushcutters to help get into some of the property. There are many other invasives present and the use of such tools could help suppress their growth and expansion.

Year 5 Notes:

Amount Removed: 5 bags removed

Time spent on removal: 4 hours, 6 people

Is follow up needed?: Yes, annual follow-up treatment recommended.

Were treatments uploaded to iMapInvasives? Yes

