



DEVELOPMENT SERVICES DEPARTMENT
ENVIRONMENTAL COORDINATOR
450 110th Ave NE., P.O. BOX 90012
BELLEVUE, WA 98009-9012

OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. 13-106813-GH
Project Name/Address: Crittenden Asay Landscaping
301 131st Avenue NE
Planner: Reilly Pittman
Phone Number: 425-452-4350

Minimum Comment Period: May 2, 2013

Materials included in this Notice:

- Blue Bulletin
- Checklist
- Vicinity Map
- Plans
- Other:

City of Bellevue Submittal Requirements	27a
ENVIRONMENTAL CHECKLIST	
4/18/02	
If you need assistance in completing the checklist or have any questions regarding the environmental review process, please visit or call the Permit Center (425-452-6864) between 8 a.m. and 4 p.m., Monday through Friday (Wednesday, 10 to 4). Our TTY number is 425-452-4636.	
BACKGROUND INFORMATION	
Property Owner:	Heidi Crittenden
Proponent:	Clean Cuts, Inc.
Contact Person:	Will Sanderson
(If different from the owner. All questions and correspondence will be directed to the individual listed.)	
Address:	PO Box 2982, Redmond WA 98073-2982
Phone: Pro-	425-247-5034, will@cleancutsinc.com
Proposal Title:	Crittenden-Asay Landscaping Parcel #: 247230-0040
Proposal Location:	Corner of 131st Ave NE & NE 3rd ST.
(Street address and nearest cross street or intersection) Provide a legal description if available.	
Please attach an 8 ½" x 11" vicinity map that accurately locates the proposal site.	
Give an accurate, brief description of the proposal's scope and nature:	
1. General description:	Rebuild retaining wall at stream, remove blackberry invasion, & replace old hurricane fence.
2. Acreage of site:	Install permanent native vegetation to mitigate erosion and blackberry regrowth. .2617 acres
3. Number of dwelling units/buildings to be demolished:	0
4. Number of dwelling units/buildings to be constructed:	0
5. Square footage of buildings to be demolished:	0
6. Square footage of buildings to be constructed:	0
7. Quantity of earth movement (in cubic yards):	0
8. Proposed land use:	Planting of vegetation to mitigate erosion and blackberry infestation.
9. Design features, including building height, number of stories and proposed exterior materials:	
None	

Estimated date of completion of the proposal or timing of phasing:

Rebuilding of retaining wall in stream, removal of blackberry, installation of new cedar fence 5-5.5' in height and jute erosion control cloth has already happened. Approval of habitat restoration required for next phase of implementation.

The wall to be rebuilt is an existing rockery wall adjacent to the stream which will have displaced rocks restacked/replaced.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

The homeowner would like to remove all the concrete behind the fence area and along the patio and replace with grass. It would consist of removing ~ 1000 sq ft of concrete to remove, ~2000 sq ft of sod installation

List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Critical Areas Land Use Permit perhaps.

Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. List dates applied for and file numbers, if known.

No applications to my knowledge.

List any government approvals or permits that will be needed for your proposal, if known. If permits have been applied for, list application date and file numbers, if known.

Clear & Grade Permit with review under SEPA, Critical Areas Land Use Permit, & not sure yet on a permit through the Right of Way Division of the Transportation Department for the fence.

Please provide one or more of the following exhibits, if applicable to your proposal. (Please check appropriate box(es) for exhibits submitted with your proposal):

Land Use Reclassification (rezone) Map of existing and proposed zoning

Preliminary Plat or Planned Unit Development
Preliminary plat map

Clearing & Grading Permit
Plan of existing and proposed grading
Development plans

Building Permit (or Design Review)
Site plan
Clearing & grading plan

Shoreline Management Permit
Site plan

A. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site: Flat Rolling Hilly Steep slopes Mountains Other

b. What is the steepest slope on the site (approximate percent slope)?

~ 30 degree slope

c. What general types of soil are found on the site (for example, clay, sand, gravel, peat, and muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

General topsoil, mixture of sand, peat and clay.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

There is a retaining wall built along the stream in an attempt to keep the bank from eroding and the drain pipe under the street clear and open. The wall partially failed and the soils became unstable. We rebuilt the part that had failed along the stream ~ 15 feet total.

The West Trib. of Kelsey Creek crosses this site and passes through a culvert under NE 3rd Street. A retaining wall was constructed at the inlet of the culvert when it was constructed. The wall reduces in height and terminates on the site.

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

No filling or grading. Clearing only.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

We install jute erosion control cloth (double layer) with staples and plan to install vegetation to maintain permanent erosion control and keep the blackberry from coming back.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

None.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

As stated above.

2. AIR

- a. What types of emissions to the air would result from the proposal (i.e. dust, automobile odors, and industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

None

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

None

- c. Proposed measures to reduce or control emissions or other impacts to the air, if any:

NA

3. WATER

- a. Surface

(1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If

appropriate, state what stream or river it flows into.

West tributary to Kelsey Creek.

- (2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If Yes, please describe and attach available plans.

Stream within 50'.

- (3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

- (4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

- (5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No **Yes some of the planting and wall repair are within the 100 year floodplain**

- (6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No

b. Ground

- (1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description.

No

- (2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.) Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

c. Water Runoff (Including storm water)

- (1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Rain water will inevitably run into the stream. There is a small section of “backyard” that will drain to some small degree into the stream. This will not change due to the work already done.

The removal of concrete in the proposed area and install of grass should not effect the run-off either.

- (2) Could waste materials enter ground or surface waters? If so, generally describe.

No.

- d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:
Installation and maintenance of permanenet vegetation.

4. Plants

- a. Check or circle types of vegetation found on the site:

xx deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

xx shrubs

grass

pasture

crop or grain

wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other

water plants: water lily, eelgrass, milfoil, other

other types of vegetation

- b. What kind and amount of vegetation will be removed or altered?

A large amount of blackberry has been removed. Approx. 1000 sq. ft.

- c. List threatened or endangered species known to be on or near the site.

None.

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Installation and maintenance of native plants to prevent erosion and keep blackberry from regrowing. Reference attached Habitat Improvement Plan by ecologist Ella Elman.

5. ANIMALS

a. Check or circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

- Birds: hawk, heron, eagle, songbirds, other: Ducks sometime frequent upstream.
- Mammals: deer, bear, elk, beaver, other:
- Fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened or endangered species known to be on or near the site.

Chinook and Sockeye are found in the West Tributary and are Threatened.

c. Is the site part of a migration route? If so, explain.

Fish migration in stream

d. Proposed measures to preserve or enhance wildlife, if any:

Replanting of stream bank.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy need? Describe whether it will be used for heating, manufacturing, etc.

NA

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No

c. What kinds of energy conservation features are included in the plans of the proposal? List other proposed measures to reduce or control energy impacts, if any:

None

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

No

(1) Describe special emergency services that might be required.

None

(2) Proposed measures to reduce or control environmental health hazards, if any.

None

b. Noise

- (1) What types of noise exist in the area which may affect your project (for example, traffic, equipment, operation, other)?

None for the habitat restoration.

For the proposed concrete removal there would be 1-2 days of jack hammering.

- (2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example, traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Little to none. Ongoing maintenance of landscaping only.

Noise would be produced between the hours of 9am-4pm.

Noise regulated by
BCC 9.18

- (3) Proposed measures to reduce or control noise impacts, if any:

None.

8. Land and Shoreline Use

- a. What is the current use of the site and adjacent properties?

Residence

- b. Has the site been used for agriculture? If so, describe.

No

- c. Describe any structures on the site.

Home constructed in 1970.

- d. Will any structures be demolished? If so, what?

No

- e. What is the current zoning classification of the site?

Residential **R-3.5**

- f. What is the current comprehensive plan designation of the site?

Single Family- Medium Density

- g. If applicable, what is the current shoreline master program designation of the site?

NA

- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

The stream and surrounding 50' buffer is considered Critical Area.

- i. Approximately how many people would reside or work in the completed project?

None

- j. Approximately how many people would the completed project displace?

None

- k. Proposed measures to avoid or reduce displacement impacts, if any:

None

- i. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
None needed as far as we know.

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
None
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
None
- c. Proposed measures to reduce or control housing impacts, if any:
None

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? 5-6' of fencing already installed.
- b. What views in the immediate vicinity would be altered or obstructed?
None
- c. Proposed measures to reduce or control aesthetic impacts, if any:
None

11. Light and Glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
None
- b. Could light or glare from the finished project be a safety hazard or interfere with views?
None

c. What existing off-site sources of light or glare may affect your proposal?

None

d. Proposed measures to reduce or control light or glare impacts, if any:

None

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Country Club

b. Would the proposed project displace any existing recreational uses? If so, describe.

No

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None

b. Generally describe any landmarks or evidence of historic, archeological, scientific, or cultural importance known to be on or next to the site.

None

c. Proposed measures to reduce or control impacts, if any:

NA

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

131st Ave NE & 3rd Ave

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

No

c. How many parking spaces would be completed project have? How many would the project eliminate?

None

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

3 during installation and once per month maintenance.

g. Proposed measures to reduce or control transportation impacts, if any:

None

15. Public Services

a. Would the project result in an increased need for the public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No

b. Proposed measures to reduce or control direct impacts on public services, if any.

None

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

All of the above.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None.

Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature.*Will Sanderson*.....

Date Submitted.03/25/2013.....

Received
FEB 11 2013
Permit Processing

**Habitat Improvement Plan
for Crittenden-Asay Landscaping Project
(301 131st Avenue Northeast, Bellevue, WA)**

Prepared for:

**Reilly Pittman
Development Services
City of Bellevue**

February, 2013

Prepared by:

Ella Elman
Ecologist
834 171st PL NE
Bellevue, WA 98008

Introduction

The property at 301 131st Avenue Northeast is a single family parcel, #247230-0040, sized at 0.2617 acres. The property abuts the west fork of Kelsey Creek and runs along the creek for 95 linear feet.

In early 2012, flooding of the Creek damaged the retaining wall that supports the bank along the property. The retaining wall was repaired in September 2012. As part of the repairs, approximately 700 square feet of Himalayan blackberry (*Rubus armeniacus*) was removed and grubbed from the stream bank and a new cedar fence was installed at the top of the bank. The stream bank is very steep (greater than 30 percent slope) and is considered to be a “Critical Area” in the City of Bellevue. Currently, there is no vegetation present in this area, aside from two existing trees growing at the top of the stream bank. The soil is currently covered by a double layer of jute erosion control fabric to prevent erosion.

This report represents a habitat improvement plan for the affected area, along with adjacent areas that are not affected by the “Critical Areas” permit. In addition, monitoring and maintenance recommendations are made for five years following planting of the site.

Site Description

A visual assessment of the project site was conducted on February 9, 2013. The riparian area along the stream extends 95 linear feet along the western property boundary and is approximately 20 feet wide. The area was divided into five distinct zones (Map 1).

Zone 1 consists of an area extending approximately 25 linear feet along the stream. This zone consists of English ivy (*Hedera helix*) groundcover, and was not impacted by the work along the streambank.

Zones 2 and 3 represent the area where Himalayan blackberry was removed in September of 2012, and is bare of vegetation, with the exception of two trees at the top of the bank. These two zones comprise approximately 700 square feet in area and extend 35 feet along the stream. They are currently covered by a double layer of jute erosion control fabric to prevent soil erosion. These zones are subject to the current permitting actions that are a part of the retaining wall reconstruction project.

Zones 4 and 5 consist of three terraces that were constructed prior to 2011. This area was not affected during the wall reconstruction project. The area extends approximately 35 feet along the stream and is 22 feet wide. Zone 4 of the terraces is a bare area that is currently maintained by weeding. Zone 5 is sparsely planted with ornamental and native species such as Rhododendrons (*Rhododendron sp.*), red alders (*Alnus rubra*), sword fern (*Polystichum munitum*) and a Douglas-fir (*Pseudotsuga menziesii*).



Map 1. Location of property and delineated zones.

Management Recommendations

Zone 1

No management recommendations are made for Zone 1 at the current time. This zone was not affected by the repairs of the retaining wall and no vegetation was removed or altered in this area.

Zones 2 and 3

These zones should be re-planted with native shrubs and herbaceous species as soon as possible to stabilize the area. The planting season in the Pacific Northwest is during the winter and spring months, when moisture is available to allow plants to establish. If possible, it is recommended that plants are planted before the end of February, 2013. Shrubs should be spaced approximately five feet apart, with herbaceous plants spaced between the shrubs.

Due to the steep slopes present in these zones, plants should be planted directly into the jute fabric, which should remain until plants establish. Strategic placement of large woody debris can create temporary terraces that can prevent soil erosion once the jute fabric decomposes in approximately two to three years.

Table 1. Zones 2 and 3 Planting Plan (all plants are 1 gallon)

Zone	Species Name	Quantity
2	tall Oregon grape (<i>Mahonia aquifolium</i>)	2
2	Mock orange (<i>Philadelphus lewisii</i>)	3
2	red-flowering currant (<i>Ribes sanguineum</i>)	3
2	Nootka rose (<i>Rosa nutkana</i>)	3
2	snowberry (<i>Symphoricarpos albus</i>)	3
2	sword fern (<i>Polystichum munitum</i>)	5
2	salal (<i>Gaultheria shallon</i>)	5
2	big-leaf lupine (<i>Lupinus polyphillus</i>)	4
3	vine maple (<i>Acer circinatum</i>)	3
3	red-twig dogwood (<i>Cornus sericea</i>)	3
3	Pacific ninebark (<i>Physocarpus capitatus</i>)	3
3	salmonberry (<i>Rubus spectabilis</i>)	2
3	red elderberry (<i>Sambucus racemosa</i>)	3

3	big-leaf lupine (<i>Lupinus polyphillus</i>)	5
3	sword fern (<i>Polystichum munitum</i>)	5
3	bleeding heart (<i>Dicentra formosa</i>)	4

Zone 4

Zone 4 is already terraced and relatively flat. This zone is not part of the “Critical Areas” permitting in Zones 2 and 3. Nevertheless, a planting plan was developed for this area, as it is sparsely vegetated.

Zone 4 is currently cleared of vegetation and weeds are beginning to grow. It is recommended that this area is preserved as a view corridor from the house to the stream, as there are currently no tall shrubs or trees in this zone. There are three terraces, spanning the elevation from the top to the bottom of the stream bank. To reduce weeding and maintenance, it is recommended that this zone is planted densely with groundcovers and covered with three to four inches of bark mulch. Mulch should be kept at least six inches away from plants to prevent water from pooling around the roots.

The open character of this area provides an opportunity to create a wildflower meadow that would benefit wildlife including humming birds, butterflies and insects. Wildflowers should be planted in clusters of three gallon pots of the same species together, to create a more landscaped appearance.

Table 2. Zone 4 Planting Plan (all plants are 1 gallon)

Terrace	Species Name	Quantity
Upper	tall Oregon grape (<i>Mahonia aquifolium</i>)	2
Upper	red-flowering currant (<i>Ribes sanguineum</i>)	1
Upper	big-leaf lupine (<i>Lupinus polyphillus</i>)	6
Upper	Oregon iris (<i>Iris tenax</i>)	3
Upper	western columbine (<i>Aquilegia formosa</i>)	6
Upper	Oregon sunshine (<i>Eriophyllum lanatum</i>)	6
Upper	riverbank lupine (<i>Lupinus rivularis</i>)	3
Upper	Davidson’s penstemon (<i>Penstemon davidsonii</i>)	3
Upper	coast penstemon (<i>Penstemon serrulatus</i>)	3
Middle	Western meadowrue (<i>Thalictrum occidentale</i>)	3

Middle	Mock orange (<i>Philadelphus lewisii</i>)	2
Middle	big-leaf lupine (<i>Lupinus polyphillus</i>)	6
Middle	Oregon iris (<i>Iris tenax</i>)	3
Middle	riverbank lupine (<i>Lupinus rivularis</i>)	3
Middle	bleeding heart (<i>Dicentra formosa</i>)	3
Middle	western columbine (<i>Aquilegia formosa</i>)	6
Middle	Oregon sunshine (<i>Eriophyllum lanatum</i>)	6
Lower	Salmonberry (<i>Rubus spectabilis</i>)	2
Lower	Western meadowrue (<i>Thalictrum occidentale</i>)	4
Lower	big-leaf lupine (<i>Lupinus polyphillus</i>)	4
Lower	Oregon iris (<i>Iris tenax</i>)	3
Lower	western columbine (<i>Aquilegia formosa</i>)	3
Lower	early blue violet (<i>Viola adunca</i>)	3
Lower	riverbank lupine (<i>Lupinus rivularis</i>)	3

Zone 5

Zone 5 is already terraced and relatively flat. This zone is not part of the “Critical Areas” permitting in Zones 2 and 3. Nevertheless, a planting plan was developed for this area, as it is sparsely vegetated.

Zone 5 has little understory vegetation, with several sparsely planted Rhododendron shrubs and a small Douglas-fir tree. This area is currently landscaped, and the character of the landscaping should be preserved. It is recommended that groundcovers and low shrubs are added to the area to fill in the vegetation. In addition, the zone should be covered with three to four inches of bark mulch to reduce weeding and maintenance. Mulch should be kept at least six inches away from plants to prevent water from pooling around the roots.

Table 3. Zone 5 Planting Plan (all plants are 1 gallon)

Terrace	Species Name	Quantity
Upper	evergreen huckleberry (<i>Vaccinium ovatum</i>)	5
Upper	red huckleberry (<i>Vaccinium parvifolium</i>)	2

Upper	sword fern (<i>Polystichum munitum</i>)	5
Upper	white fawn lily (<i>Erythronium oregonum</i>)	3 (4" pots)
Middle	evergreen huckleberry (<i>Vaccinium ovatum</i>)	3
Middle	tall Oregon grape (<i>Mahonia aquifolium</i>)	2
Middle	sword fern (<i>Polystichum munitum</i>)	5
Middle	salal (<i>Gaultheria shallon</i>)	5
Middle	white fawn lily (<i>Erythronium oregonum</i>)	3 (4" pots)
Lower	evergreen huckleberry (<i>Vaccinium ovatum</i>)	3
Lower	tall Oregon grape (<i>Mahonia aquifolium</i>)	2
Lower	sword fern (<i>Polystichum munitum</i>)	5
Lower	salal (<i>Gaultheria shallon</i>)	5
Lower	white fawn lily (<i>Erythronium oregonum</i>)	3 (4" pots)

Monitoring and maintenance recommendations

Following planting, Zones 2 and 3 must be monitored and maintained for a period of at least five years.

Monitoring

Monitoring should take place once a year, during the summer or fall season, when shrubs can be identified to species. Monitoring should be conducted during the same month each year for consistency. Restoration goals and monitoring metrics are identified below. Both Zones 2 and 3 shall have:

- 1) 80% survival of shrub species by year three
- 2) Less than 10% cover of invasive species in the tree, shrub and herbaceous layers by year three

Due to the small size of the area, a total survey of all planted shrubs should take place once a year. If fewer than 80% of planted shrubs survive, they should be replaced during the planting season to ensure that at least 80% of planted shrubs are alive by year three following planting.

Monitoring of invasive species should take place at least twice a year, in the spring and fall. Visual monitoring is sufficient for this small area. If more than 10% of the area is covered by invasive species, maintenance will be required.

Maintenance

Zones 2 and 3 should be maintained at least twice a year, in the spring and in the fall. Maintenance should include removal of any re-growth of Himalayan blackberry, with as much root as possible. In addition, any invasive species including English ivy that might be spreading from Zone 1 should be removed.

Watering might be necessary in Zones 2 and 3 during the summer months for the first two years, or until plants establish. New plantings should be watered deeply to penetrate into the soil. Plants should be kept relatively moist, and not allowed to dry out completely.

Plants in Zone 4 are not subject to restoration goals. These plants mostly consist of wildflowers that grow in open meadow environments and are adapted to dry soils in the summer. Care should be taken not to water these plants excessively.

Plants in Zone 5 are also not subject to the restoration goals. Newly planted plants should be watered for the first two years during the summer months, to allow the plants to establish.