

## NORTH ABBEY CREEK NATURAL AREA

### Approvals for Site Stewardship Plan

Date first routed: October 4, 2018

Justin Takkunen

Signature

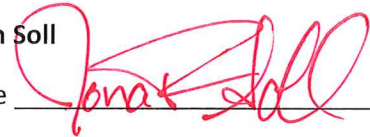


Date

10/18/19

Jonathan Soll

Signature



Date

2/25/2020

Dan Moeller

Signature



Date

2/26/2020

## SITE STEWARDSHIP PLAN

# North Abbey Creek Natural Area



September 2018



**Metro**

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## NORTH ABBEY CREEK NATURAL AREA SITE INFORMATION

### LOCATION

Address: 11375 NW Skyline Blvd, Portland, OR 97231

County: Multnomah

Number of acres: 210.8

Metro file no.: S 13.01

**Table 1: Metro natural area bond purchased land for North Abbey Creek Natural Area**

PROPERTY NAME	FILE NO.	BOND YEAR	DATE ACQUIRED	MANAGEMENT	ACRES
Chang	13.044	2006	09/14/2009	Metro	20.00
Keystone	13.043	2006	04/12/2010	Metro	20.61
Cho	13.046	2006	06/04/2010	Metro	40.00
Fernald	13.048	2006	04/21/2011	Metro	37.39
Steinberg	13.040	2006	09/30/2011	Metro	39.50
Lorenzen	13.047	2006	09/27/2013	Metro	55.60

### DIRECTIONS TO SITE

From Wankers Corner Field Station (2661 SW Borland Road, Tualatin, OR 97062):

- Head south toward SW Borland Road
- Turn left onto SW Borland Road
- At the traffic circle, take the first exit onto SW Stafford Road
- Turn right to merge onto I-205 S toward Salem/I-5; merge onto I-205 S
- Take the I-5 N exit toward Portland; merge onto I-5 N
- Take exit 299B on the left for I-405 N toward US-26 W
- Continue onto I-405 N
- Take exit 1D for US-26 W toward Beaverton; continue onto US-26 W
- Take exit 62B for Cornelius Pass Road N
- Turn right onto NW Skyline Blvd
- Turn right onto NW Quarry Road

See Map 1 for details.

## SECTION 1: INTRODUCTION

### 1.1 CONTEXT

The 210.8-acre North Abbey Creek Natural Area is part of the North Tualatin Mountain naturehood and is located on the western face of the northern end of the naturehood, north of Forest Park and south of Skyline Road in west Multnomah County.

The area surrounding North Abbey Creek Natural Area contains a mixture of land uses including residential, school, and agriculture and timber harvest. Metro's McCarthy Creek Natural Area is to the north, and Burlington Creek Forest and Ennis Creek Forest natural areas are to the east. The City of Portland's Forest Park lies southeast of the site. See Map 2.

## **1.2 SITE STEWARDSHIP PLAN GOALS AND USES**

Site Stewardship Plans (SSPs) and Site Conservation Plans (SCPs) are sister documents. SCPs document conservation targets, desired future conditions, and key threats, providing a long-term vision for the site for internal and external audiences. Though rarely fully updated, SCPs are periodically revised to document strategic implementation and reflect on lessons learned through adaptive management. SCPs provide guidance for short- and long-term stewardship actions that the Natural Areas Land Management Team will take to reduce threats and increase conservation target health.

SSPs provide a five to ten-year outlook for ongoing care of a site, shaping a vision of options and costs to facilitate thoughtful decisions using available resources. SSPs are primarily an internal working document and address vegetation management, such as invasive species control, and infrastructure maintenance for items such as fences, gates, and water control structures. SSPs are updated periodically as key restoration or access and development projects are implemented.

This SSP provides information necessary to:

- Protect natural resources supporting wildlife habitat and water quality.
- Define key actions that help achieve desired future conditions of conservation targets.
- Define key actions required to maintain infrastructure.
- Provide cost estimates for actions.
- Prioritize actions and document implementation.

The major stewardship issues of concern at North Abbey Creek Natural Area include:

- Invasive species management.
- Maintain restoration/stabilization plantings.

## **SECTION 2: CONSERVATION TARGETS AND DESIRED FUTURE CONDITIONS**

### **2.1 MAJOR HABITAT TYPES**

Historically, the area around North Abbey Creek Natural Area was mapped primarily as a mesic mixed conifer forest with mostly deciduous understory. The forest may have included Douglas fir (*Pseudotsuga menziesii*), western hemlock (*Tsuga heterophylla*), western red cedar (*Thuja plicata*), grand fir (*Abies grandis*), bigleaf maple, Pacific yew (*Taxus brevifolia*), dogwood (*Cornus*), white oak (*Quercus garryana*), and red alder (*Alnus rubra*).

In present day, North Abbey Creek Natural Area can be characterized by several natural habitat types (Table 2; Map 3). More detailed descriptions are available in the SCP.

**Table 2: Major habitat types at North Abbey Creek Natural Area**

<b>HABITAT TYPE</b>	<b>ACRES</b>
Riparian forest	55.4
Upland forest – mixed	54.7
Upland forest – deciduous	49.1
Upland forest – coniferous	17.9
Upland forest – shrub stage	32.2
Developed – pervious/non ag	0.6
Developed – impervious	0.9
<b>Total</b>	<b>210.8</b>

## **2.2 CONSERVATION TARGETS**

Conservation targets are composed of a suite of species, communities and ecological systems that represent and encompass the full array of native biodiversity of the site, reflect local and regional conservation goals and are viable or at least feasibly restorable. Using onsite natural habitat types and regional conservation planning efforts as guides, conservation targets were selected that encompass the site's biodiversity values and regional conservation targets. The targets at North Abbey Creek Natural Area are:

- Riparian forest
- Upland forest
- Upland shrub habitat

Appendix A summarizes the conservation targets, key ecological attributes, threats and strategic short- and long-term stewardship actions that can help address threats to these conservation targets. For more information, see the Site Conservation Plan.

It is important to prioritize restoration and stewardship activities for several reasons. Budgetary or time constraints are likely to limit how much work can be accomplished at a given site. Specific actions may rise to the top due to the scarce or unique nature of a habitat type or because abating a certain threat now will save time and money in the future. The SCP prioritizes conservation targets while Appendix B of this SSP assigns priority rankings to key actions; this does not mean that the other actions are not important, simply that they are not the most important actions within the next five to ten years.

## **2.3 SPECIAL OR SENSITIVE HABITAT**

In general, upland forests, particularly young forests, are not a regionally rare habitat type. However, the size of this natural area (210.8 acres) and its proximity to other large blocks of forested habitat along the rural/urban interface make it a regionally important site. Within the 210.8-acre site there are over 150 acres of interior forest habitat. Interior forest habitat for species sensitive to edge conditions such as predation and parasitism. The natural area also includes the headwaters and over a mile of North Abbey Creek, as well as multiple ephemeral drainages.

In addition, a resident elk herd is frequently seen in the natural area and many neighbors consider the elk herd a significant local resource. Oregon Department of Fish & Wildlife considers the area an elk de-emphasis area. Birthrates and calf survival appear to be low, perhaps due to a lack of high-quality spring forage. Coho salmon (*Oncorhynchus kisutch*) and winter steelhead (*Oncorhynchus*

*mykiss*) are present in lower North Abbey Creek Natural Area. Avian surveys were initiated in 2015 and have been completed for 2016, 2017 and 2018.

## **SECTION 3: STEWARDSHIP ACTIONS**

Stewardship actions are broken up into five primary stewardship categories: site monitoring, vegetation management, access and infrastructure, water resources, and wildlife habitat as described below. Terramet includes the full list of stewardship categories, actions and tasks. Appendix B-1 describes strategic stewardship actions for each category needed over the next five to ten years, and Appendix B-2 provides a budget for these actions, as well as additional actions that may be warranted given sufficient time or funds.

### **3.1 SITE MONITORING**

Monitoring at the North Abbey Creek Natural Area is an integral part of an adaptive management approach to restoration and stewardship. Based on the monitoring plan developed by Metro, a feedback loop is created between monitoring and management decisions. Monitoring will be done to evaluate habitat, population responses to management action, as well as progress toward achieving habitat and population objectives.

Key monitoring actions at North Abbey Creek Natural Area may include:

- Regular site walks to identify issues such as hunting, illegal dumping, illegal access and inappropriate public use/access.
- Visual estimates of success of restoration/stabilization planting units and vegetation management actions.
- Early detection and rapid response surveys (EDRR).

### **3.2 VEGETATION MANAGEMENT**

Key vegetation management actions for the next five to ten years at North Abbey Creek Natural Area relate primarily to:

- Treat priority and EDRR weeds.

Many of these actions span multiple habitat areas and conservation targets.

Metro has initiated an early detection and rapid response (EDRR) program for certain invasive species. These EDRR species will be controlled by hand pulling or herbicide application as they are detected in the natural area. Other invasive plant species will be controlled as part of restoration projects or ongoing management of habitat areas. See Appendix C for a list of invasive species.

### **3.3 ACCESS AND INFRASTRUCTURE**

Infrastructure generally includes human constructs such as maintenance roads, gates, fences, culverts, and signs. This category of stewardship actions may also include inventory property encroachments or surveying property lines. See Map 4 for spatial information on access and infrastructure at North Abbey Creek Natural Area.



Key access and infrastructure actions at North Abbey Creek Natural Area are:

- Survey the access easement on the central west side and install Carsonite boundary markers to clearly define Metro property lines.
- Maintain culverts.

### **3.4 WATER RESOURCES**

Water resources stewardship actions are generally defined as maintenance of infrastructure associated with streams, rivers or wetlands at the site. Examples include maintenance of large wood structures, water control structures, or other water resource related actions and tasks.

There are no relevant water resources actions at North Abbey Creek Natural Area.

### **3.5 WILDLIFE HABITAT**

Wildlife habitat structures are specific features installed to improve wildlife habitat. Examples include nest boxes, turtle logs or platforms, beaver exclusion fencing and other associated wildlife related actions and tasks.

Key wildlife habitat actions at North Abbey Creek Natural Area may include:

- Maintain open shrub habitat for elk herd.

## **SECTION 4: COORDINATION**

This Site Stewardship Plan outlines strategic development and restoration actions to be carried out at North Abbey Creek Natural Area over the next five to ten years. These actions include natural resource, access, and infrastructure improvements that require implementation plans and communications between Land Management and Science staff about long term stewardship costs. Implementation of these actions will have impacts to future stewardship and management of the site. This section is intended to identify actions that need additional coordination.

### **Actions that require coordination**

- Volunteer events will require communication and coordination between the land management and volunteer coordinators.
- Habitat restoration projects – planning and coordination involving the science, land management and planning teams regarding restoration goals, annual maintenance and access management.
- Vegetation management – coordination regarding the control and treatment of non-native, invasive plant species; monitoring for the health of native vegetation.

## SECTION 5: VOLUNTEERS AND COMMUNITY ENGAGEMENT

The primary goal of the volunteer program is to provide a variety of high-quality, meaningful volunteer opportunities that add value and capacity to Metro's work. Through these opportunities, community members are able to learn about and enjoy North Abbey Creek Natural Area, work alongside fellow community members, learn new skills or polish existing ones, and gain the satisfaction of contributing to the long-term health and livability of their communities.

For North Abbey Creek Natural Area, strategic volunteer opportunities may include:

- Group restoration projects (e.g. invasive weed removal or native plantings).
- Avian and amphibian monitoring.

## SECTION 6: SITE MANAGEMENT

Metro's management of North Abbey Creek Natural Area includes enforcement of the posted rules to provide protection for wildlife, water quality, and to protect the safety and enjoyment of any person visiting these facilities. The following sections describe key elements to management of the site.

### 6.1 FIRE INCIDENT ACTION PLAN

A fire incident action plan has been developed for this site (Appendix D, Map 5).

### 6.2 PUBLIC ACCESS

Metro is in the process of reducing the use of the natural area for education purposes. The nearby McCarthy Creek Forest and Burlington Creek Forest natural areas have been designated through the North Tualatin Mountains master planning process as more appropriate for public use.

Residents from the neighborhood to the east occasionally access the east side of the property via informal trails that connect North Abbey to neighborhood associated land.

### 6.3 SPECIAL USE PERMITS

Special use permits (SUPs) are required for certain regulated and non-traditional uses of Metro's parks and natural areas to ensure public health and safety and to protect natural resources, properties and facilities.<sup>1</sup>

Current and historical SUPs for this site can be found in Terramet in the Site Documents section of the North Abbey Creek Natural Area Docs & Agreements page or on the M drive (M:\PN\Teams\Visitor Services\SUP). One typical occurrence of an SUP for this site is that Oregon Department of Agriculture applies to place and service insect survey traps for Asian Gypsy moth and Japanese beetle eradication efforts.

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<sup>1</sup> More information regarding policies, guidelines, and applications can be found at [www.oregonmetro.gov/specialuse](http://www.oregonmetro.gov/specialuse).

## **6.4 DEED RESTRICTIONS, EASEMENTS AND OTHER SITE AGREEMENTS**

The acquisition of a property under the Natural Area Program may sometimes include deed restrictions that place limitations on the use of the land. Deed restrictions can include restrictions on tree cutting, establish landscaping requirements, or establish road maintenance fees. Acquisitions may also include easements that entitle the holder to certain uses or rights on the property. Easements can include utility easements, easements of access, and conservation easements. Metro may enter into other voluntary agreements including intergovernmental agreements (IGAs) with other agencies and management agreements with non-governmental organizations.

Existing deed restrictions, easements and other site agreements include:

### **Chang (File # 13.044)**

- Terms and provisions, including obligations for maintenance of easement as established by Oregon Law and by instrument recorded 08/03/1908, Book 425, Page 288.
- Terms and provisions, including obligations for maintenance of easement as established by Oregon Law and by instrument recorded 07/08/1922, Book 891, Page 137.
- Rights of public and governmental bodies in and to that portion of the premises herein described lying below the high water mark of an unnamed creek.

### **Keystone Construction (File # 13.043)**

- Easement for egress and ingress above and below the surface of the land as implied by reservation of minerals in Deed. Recorded 12/06/1895, Book 229, Page 259.
- Easement disclosed by instrument recorded 07/08/1922, Book 891, Page 137 in favor of Oregon Investment & Mortgage Company for access affecting Parcel 1.
- Reservation of right contained in a deed recorded 11/05/1887 in Book 98, Page 191. In this deed O&C Railroad, et al. conveys the property to J.A. Mather subject to certain reservations.
- Easement for egress and ingress recorded 06/22/1922 in Deed Book 891, Page 137, Multnomah County, which conveyed an access easement consisting of a 10-foot wide strip that is the western 10 feet of South half of the North half of the East half of the Southwest Quarter (Tax Lot 300).
- Reciprocal Easements and Access Agreement recorded 04/24/1996 as Instrument No. 96061375, Multnomah County.

### **Cho (File #13.046)**

- Easement for right-of-way purposes in favor of the adjoining property to the North of the property in a deed recorded 08/03/1903 in Book 425, Page 288. The right-of-way easement covers the westernmost 10 feet of the property, a 10-foot wide strip from the SW corner to the NW corner. This easement was reserved in the deed to provide access to Kaiser Road for the North half of the East half of the SW  $\frac{1}{4}$  of Section 5.

- Easement for ingress and egress above and below the surface of the land as implied by reservation of minerals in Deed. Recording date: 12/06/1895, Book 229, Page 259.
- Rights of public and governmental bodies in and to that portion of the premises herein described lying below the high water mark of an unnamed creek.

#### **Fernald (File #13.048)**

- Rights of public and governmental bodies in and to that portion of the premises herein described lying below the high water marks of an unnamed creek.
- Exception referencing a Declaration of Deed Restrictions recorded 04/03/1987 as Recording No. 87-027285 in Book 1992, Page 2623. This deed restriction binds present and future owners of the property to share in the future development and improvement cost of the adjacent Kaiser Road, with other property owners abutting Kaiser Road.

#### **Steinberg (File #13.040)**

- None. Prior easements merged out of existence due to Metro acquisitions of surrounding parcels.

#### **Lorenzen (File #13.047)**

- None.

For more detailed information on any of the above agreements, please refer to the Terramet acquisition pages or the legal acquisition hard copy files for the properties that make up this site (Chang - 13.044, Keystone Construction - 13.043, Cho - 13.046, Fernald - 13.048, Steinberg - 13.040, Lorenzen - 13.047).

### **6.5 RESIDENTIAL OR AGRICULTURAL LEASE AGREEMENTS**

Some Metro Natural Areas include a residence or multiple residences on the site. If and when it is decided to rent out a residence, a rental agreement is developed by Metro. This agreement describes the lease terms, any rental restrictions, and acceptable uses of the lease area. In some cases the lease area is delineated on the ground by installation of markers such as Carsonite posts, t-posts, or fencing. Some standard lease terms include a month to month term, pet restrictions, no hunting, and no commercial activities.

Metro may enter into agricultural lease agreements when the acquisition comes with an existing agricultural lease, farming fulfills management goals, or the preservation of available agricultural land and historic farming practices is desired. The agricultural lease delineates the boundaries of the farmed area and can include specific requirements including crop planted, herbicides used, and equipment used.

North Abbey Creek Natural Area does not have any existing residential or agricultural lease agreements.

For detailed information on potential future leases, please refer to the Agreements section of the Terramet site page for North Abbey Creek Natural Area or the Leases tab of the Terramet Administration Agreements page.

## **MAPS**

**Map 1** – Vicinity

**Map 2** – Site

**Map 3** – Current cover

**Map 4** – Site infrastructure

**Map 5** – Fire incident action plan

## **APPENDICES**

**Appendix A** – Summary of conservation target KEAs, threats, goals

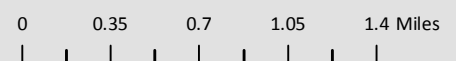
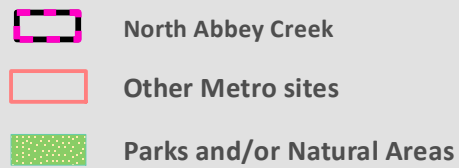
**Appendix B** – Stewardship actions

B-1 Summary of stewardship actions

B-2 Budget for stewardship actions

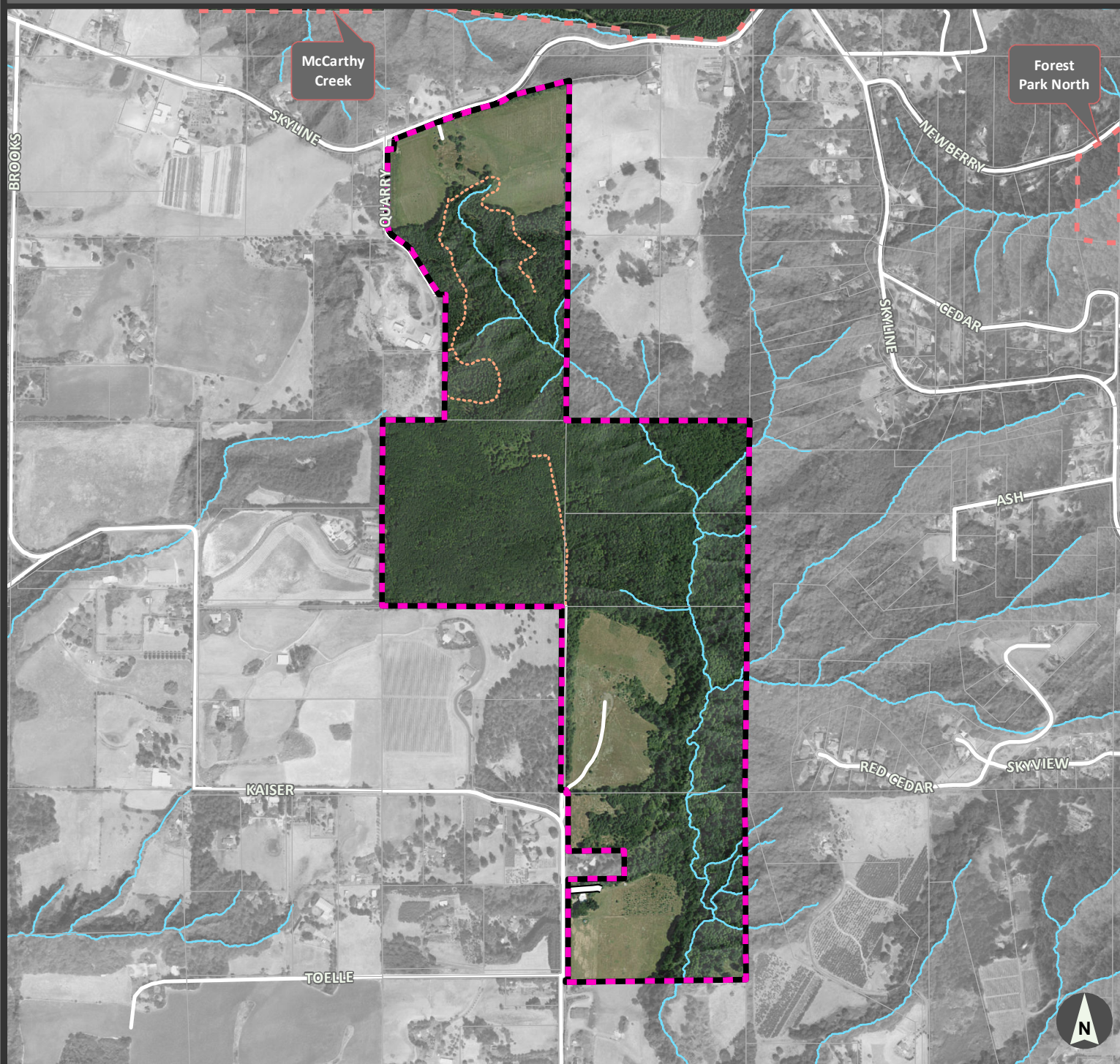
**Appendix C** – Invasive species

**Appendix D** – Fire incident action plan

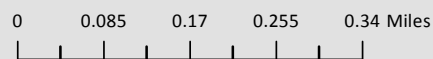
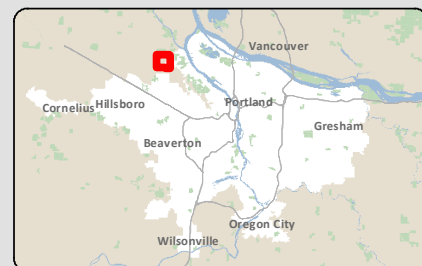




# Site map

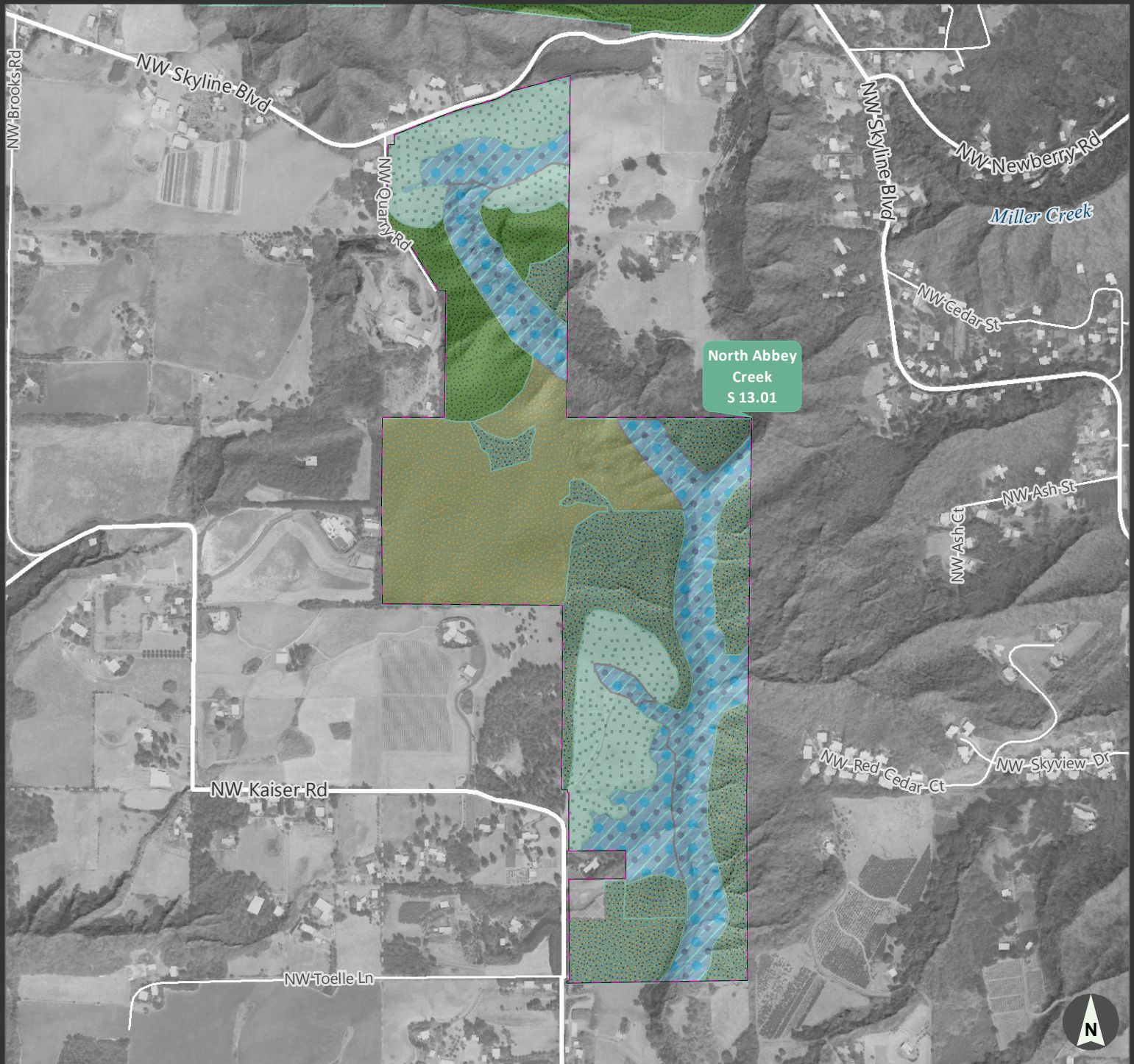



- North Abbey Creek
- other Metro managed site
- Road network on site
  - other (unmaintained or historic)
  - paved; driveway
  - dirt/gravel
- Streams
- Taxlot












# Current cover map



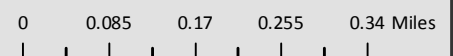
 North Abbey Creek site

-  Developed - (impervious)
-  Developed - (pervious/non ag)
-  Riparian forest
-  Upland forest - coniferous

-  Upland forest - deciduous
-  Upland forest - mixed
-  Upland forest - shrub (stage)

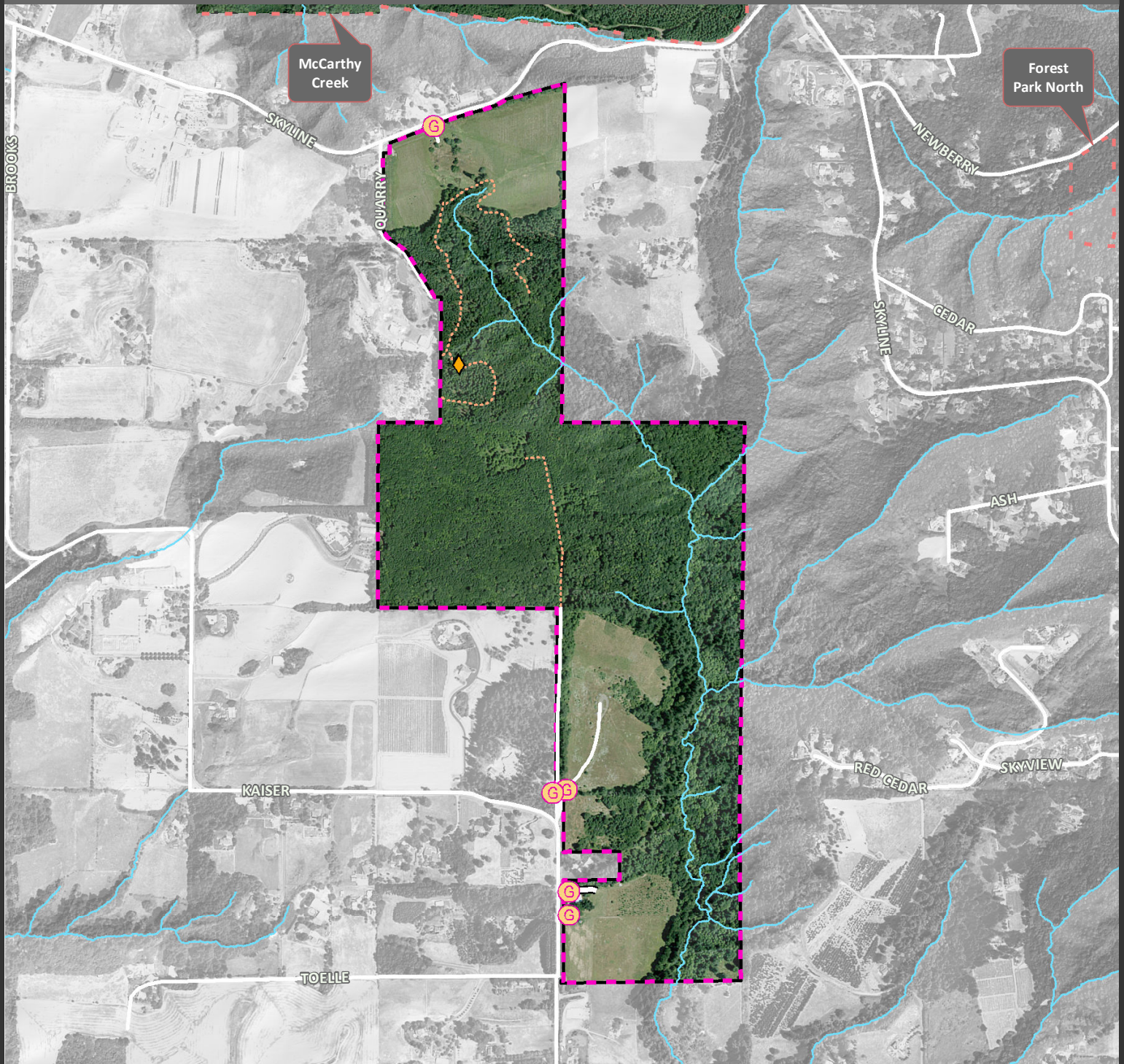
Featured site








## North Abbey Creek






# Site infrastructure map



-  Featured site
-  Culvert
-  gate
-  other Metro site Labels
- Road network on site
-  other (unmaintained or historic)
-  paved; driveway
-  dirt/gravel

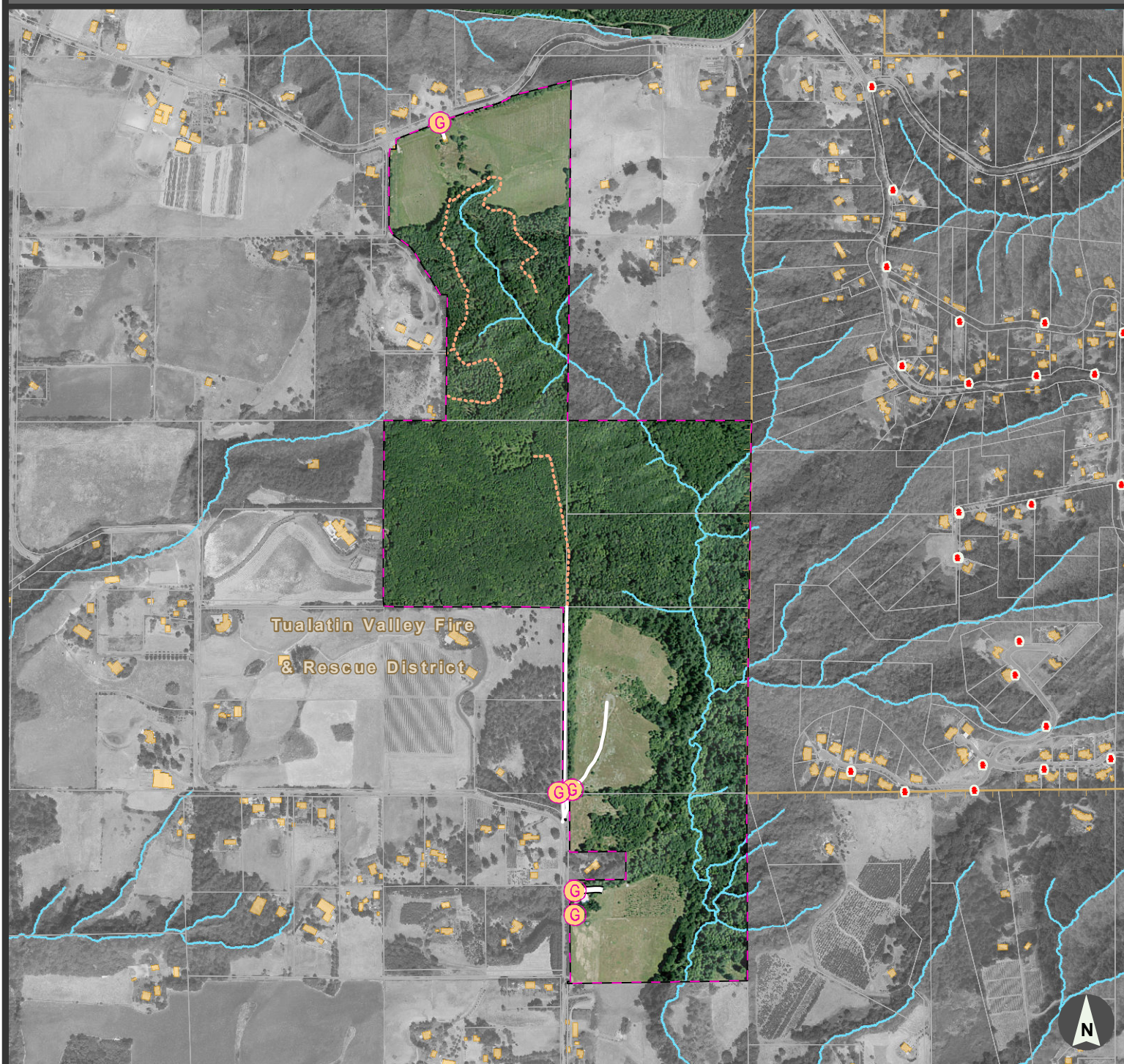
0 0.085 0.17 0.255 0.34 Miles












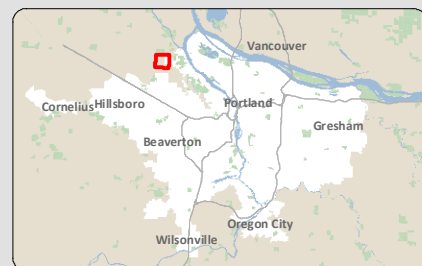
# Fire Incident Action Plan

**primary entrance: 11375 NW Skyline Blvd, Portland, OR 97231**



**Tualatin Valley Fire  
& Rescue District**

-  **Featured site**
- Roads
-  other (unmaintained or historic)
  -  paved; driveway
  -  dirt/gravel
-  Proximal Hydrants
-  gate
-  Structures
-  Fire districts



0 0.085 0.17 0.255 0.34 Miles

# North Abbey Creek

lat/long for primary entrance: ((45.60493536, -122.84525119))

**Metro Parks & Nature - map date: 9/10/2018**

APPENDIX A

NORTH ABBEY CREEK NATURAL AREA

Conservation Target Summary Table for North Abbey Creek Natural Area - summary of conservation target key ecological attributes (KEAs), significant threats, and strategic restoration actions. The priority assignment refers to the habitat(s) in most immediate need of attention.

CONSERVATION TARGET	KEY ECOLOGICAL ATTRIBUTES (KEAs)	SIGNIFICANT THREATS	STRATEGIC RESTORATION AND STEWARDSHIP ACTIONS & PRIORITY RANK
Upland forest	<ul style="list-style-type: none"><li>Forested habitat patch size</li><li>Native tree and shrub richness</li><li>Mature trees</li><li>Standing and downed dead trees</li></ul>	<ul style="list-style-type: none"><li>Overstocking competition</li></ul>	<p><i>High priority</i></p> <ul style="list-style-type: none"><li>Interplant to increase understory diversity</li></ul> <p><i>Medium priority</i></p> <ul style="list-style-type: none"><li>Selectively thin upland forest patches that are accessible to machine harvest or affordable chainsaw thinning during the next 5 years</li></ul> <p><i>Low priority</i></p> <ul style="list-style-type: none"><li>Increase snags and downed wood</li></ul>
Riparian forest	<ul style="list-style-type: none"><li>Vegetative structure: shrub layer</li><li>Standing and downed dead trees</li></ul>	<ul style="list-style-type: none"><li>Overstocking competition, non-native shrub species (e.g., Scots broom, blackberry)</li></ul>	<p><i>High priority</i></p> <ul style="list-style-type: none"><li>Increase instream complexity</li></ul> <p><i>Medium priority</i></p> <ul style="list-style-type: none"><li>Treat exotics, especially <i>Rubus armeniacus</i> (blackberry), <i>Hedera helix</i> <i>Daphne laureola</i> (ivy), and <i>Daphne laureola</i> (Spurge laurel)</li><li>Survey and treat EDRR species and system-changing invasives</li></ul>
Upland shrub	<ul style="list-style-type: none"><li>Vegetative structure: shrub layer</li><li>Native shrub richness</li></ul>	<ul style="list-style-type: none"><li>Previous land management for farming and timber harvest</li></ul>	<p><i>Medium priority</i></p> <ul style="list-style-type: none"><li>Treat exotics, especially <i>Rubus armeniacus</i> (blackberry), <i>Hedera helix</i> <i>Daphne laureola</i> (ivy), and <i>Daphne laureola</i> (Spurge laurel)</li><li>Survey and treat EDRR species and system-changing invasives</li><li>Reduce non-native cover</li><li>Interplant to increase shrub diversity</li></ul>

## APPENDIX B-1

### NORTH ABBEY CREEK NATURAL AREA SUMMARY OF STEWARDSHIP ACTIONS

**Stewardship actions planned for the next five to ten years at North Abbey Creek Natural Area.**

*(Estimated costs and potential additional actions that could take place, depending on time and resources, are in Appendix B-2)*

PROJECT TYPE	DESCRIPTION	TIMING/FREQUENCY	COMPLETED BY
<b>SITE MONITORING</b>			
Other monitoring – site walk	Regular site walks to identify issues such as hunting, illegal dumping, illegal access and inappropriate public use/access.	Ongoing	Natural Resource Technician
Vegetation monitoring – plantings	Visual estimates of success of restoration/stabilization planting units and vegetation management actions.	Ongoing	Natural Resource Technician
Vegetation monitoring – invasive weeds	Early detection and rapid response surveys (EDRR).	Ongoing	Natural Resource Technician
<b>VEGETATION MANAGEMENT</b>			
Invasive weed control	Treat priority and EDRR weeds.	Ongoing	Natural Resource Technician
<b>ACCESS AND INFRASTRUCTURE</b>			
Survey	Survey the Cho access easement and install Carsonite boundary markers to clearly define Metro property lines.	Once	Natural Resource Technician
Culvert	Maintain culverts.	Once in the fall	Natural Resource Technician
<b>WATER RESOURCES</b>			
N/A	N/A	N/A	N/A
<b>WILDLIFE HABITAT</b>			
Terrestrial wildlife habitat – general	Maintain open shrub habitat for elk herd.	As needed	Natural Resource Technician



APPENDIX B-2

NORTH ABBEY CREEK NATURAL AREA BUDGET TABLE

10-year budget for stewardship actions

UNIT/AREA	MAINTENANCE CATEGORY	PROJECT TYPE	DESCRIPTION OF TASKS	HABITAT TYPE OR CONSERVATION TARGET	TIMING/ FREQUENCY	PRIORITY										
							FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28
Site wide	Vegetation management	Invasive weed control	Invasive weed control of priority invasive species of concern.	Riparian forest, upland forest, upland shrub	Ongoing	High	\$20,100	\$16,600	\$11,600	\$11,600	\$11,600	\$11,600	\$11,600	\$11,600	\$11,600	\$11,600
Central westside	Access and infrastructure	Survey	Survey the Cho acess easement and install Carsonite boundary markers to clearly define Metro property lines.	Upland forest	Once	Medium	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals							\$0	\$16,600	\$11,600	\$11,600	\$11,600	\$11,600	\$11,600	\$11,600	\$11,600	\$11,600

## APPENDIX C

### NORTH ABBEY CREEK NATURAL AREA INVASIVE SPECIES

The table below summarizes a preliminary list of invasive plants in all or parts of North Abbey Creek Natural Area, including focus areas and timing for control if needed. The list is compiled from the data collected during the 2014 weed mapping project, and reviewed and updated by the Natural Areas Land Management team. A list of noxious weeds for Oregon, including descriptions and photos, can be found at: [www.oregon.gov/ODA/PLANT/WEEDS/statelist2.shtml](http://www.oregon.gov/ODA/PLANT/WEEDS/statelist2.shtml).

**Working list of priority non-native species at Site Name (EDRR species are bolded in red)**

GENUS	SPECIES	COMMON NAME	FOCUS AREA FOR DETECTION/CONTROL	CONTROL TIMING
<b>Buddleia</b>	<b>davidii</b>	<b>Butterfly bush</b>	<b>All</b>	<b>Fall</b>
<i>Cirsium</i>	<i>arvense</i>	Canada thistle	All	Spring
<i>Cirsium</i>	<i>vulgare</i>	Bull thistle	All	Spring
<i>Clematis</i>	<i>vitalba</i>	Clematis	Riparian forest	Summer
<i>Conium</i>	<i>Maculatum</i>	Poison hemlock	All	Spring
<i>Crataegus</i>	<i>sp</i>	Hawthorn	All	Fall
<i>Cytisus</i>	<i>scoparius</i>	Scots broom	All	Spring
<b>Daphne</b>	<b>laureola</b>	<b>Spurge laurel</b>	<b>Upland forest</b>	<b>Winter</b>
<i>Dipsacus</i>	<i>fullonum</i>	Teasel	All	Spring
<i>Geranium</i>	<i>lucidum</i>	Shining geranium	Riparian forest	Spring
<i>Geranium</i>	<i>robertianum</i>	Herb Robert geranium	Upland forest	Spring
<i>Hedera</i>	<i>sp</i>	Ivy	All	Fall
<i>Ilex</i>	<i>aquifolium</i>	English holly	Upland forest	Winter
<i>Juglans</i>	<i>nigra</i>	Eastern black walnut	All	Fall
<i>Melissa</i>	<i>officinalis</i>	Common balm	Riparian forest	Spring
<i>Phalaris</i>	<i>arundinacea</i>	Reed canarygrass	Riparian forest	Spring/Fall
<i>Prunus</i>	<i>avium</i>	Sweet cherry	All	Fall
<i>Prunus</i>	<i>laurocerasus</i>	English laurel	All	Winter
<i>Robinia</i>	<i>pseudoacacia</i>	Black locust	All	Fall
<i>Rubus</i>	<i>bifrons</i>	Himalayan blackberry	All	Fall

**APPENDIX D****NORTH ABBEY CREEK NATURAL AREA****Address/access points**

Address:

- 11375 NW Skyline Blvd., Portland, OR 97231, Multnomah County

Primary access (Lorenzen; gate with no road):

- 11375 NW Skyline Blvd., Portland, OR 97231, Multnomah County
- Longitude: -122.843702, Latitude: 45.602435
- Gate with Metro A lock; no Knox box or fire district lock.

Secondary access #1 (Cho; gate with gravel road):

- 9340 NW Kaiser Rd., Portland, OR 97231, Multnomah County
- Longitude: -122.839231, Latitude: 45.593631
- Gate with Metro A lock; no Knox box or fire district lock.

Secondary access #2 (Fernald; no road)

- 9206 NW Kaiser Rd., Portland, OR 97231, Multnomah County
- Longitude: -122.839141, Latitude: 45.589951
- Gate with Metro A lock; no Knox box or fire district lock.

**Location**

Primary access and secondary access #1:

- T1N-R1W SECT05

Secondary access #2:

- T1N-R1W SECT08

**Acreage**

210.85

## Structures

None

## Water sources and staging areas

None. The creek is not sufficient enough to be a year-round water source.

## Sensitive habitat

None

## Contact information\*

### Metro Conservation Program

Justin Takkunen, Natural Areas Land Manager	503-964-2386 (cell)
Nathaniel Marquiss, Natural Resource Technician	503-705-4735 (cell)
Jeff Merrill, Natural Resource Scientist	503-312-0007 (cell)
Yuxing Zheng, Communications Coordinator	971-344-2207 (cell)

### Sheriff/police department

Emergency	911
Police Dept., non-emergency	503-823-3333

### Local fire department

Portland Fire & Rescue Station #27	503-823-3700
Tualatin Valley Fire & Rescue	503-649-8577

*\*Please see Terramet for most up to date contact information.*