

Meeting Agenda - Final

Planning Commission

Monday, May 9, 2016			7:00 PM	Commission Chamber	
1.	Call to Order				
2.	Public Comm	ents			
3.	Public Hearin	g			
3a.		NR 16-01			
		<u>Sponsors:</u> <u>Attachments:</u>	Planner Pete Walter Commission Report		
			NR 16-01 Staff Report and Recommendation		
			Exhibit 1. NR 16-01 Complete Application		
			Exhibit 2. Public Notices All.pdf		
			Exhibit 3. NRC Presentation		
			Exhibit 4. Local Wetland Inventory		

4. Communications

5. Adjournment

Public Comments: The following guidelines are given for citizens presenting information or raising issues relevant to the City but not listed on the agenda.

• Complete a Comment Card prior to the meeting and submit it to the staff member.

• When the Chair calls your name, proceed to the speaker table and state your name and city of residence into the microphone.

• As a general practice, Oregon City Officers do not engage in discussion with those making comments.

Agenda Posted at City Hall, Pioneer Community Center, Library, and City Web site(oregon-city.legistar.com).

Video Streaming & Broadcasts: The meeting is streamed live on Oregon City's Web site at www.orcity.org and is available on demand following the meeting.

ADA: City Hall is wheelchair accessible with entry ramps and handicapped parking located on the east side of the building. Hearing devices may be requested from the City staff member prior to the meeting. Disabled individuals requiring other assistance must make their request known 48 hours preceding the meeting by contacting the City Recorder's Office at 503-657-0891.

[•] Each speaker is given 3 minutes to speak. To assist in tracking your speaking time, refer to the timer at the dais.



Agenda Date: 5/9/2016

To: Planning Commission

Staff Report File Number: PC 16-053

Status: Agenda Ready

Agenda #: 3a.

File Type: Planning Item

From: Planner Pete Walter

SUBJECT:

NR 16-01

RECOMMENDED ACTION (Motion):

Approve with Conditions.

BACKGROUND:

See Staff Report. The applicant proposes to construct a single-family residence on a highly constrained lot of record within the Natural Resources Overlay District. The total impervious surface and encroachment into the Vegetated Corridor created by the proposed development would be 1,500 sq. ft. with a setback of less than 25' from the delineated resource. The application requires a Type III review.



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TYPE III – PLANNING COMMISSION REVIEW Natural Resources Overlay District STAFF REPORT AND RECOMMENDED FINDINGS AND CONDITIONS OF APPROVAL

May 2, 2016 Planning Commission Public Hearing: May 9, 2016

FILE NUMBER:	NR 16-01: Natural Resource Overlay District
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APPLICANT / OWNER: Mark Shaw, 16341 Hiram Avenue, Oregon City, OR 97045

- **PROPOSAL:**The applicant proposes to construct a single-family residence on a highly
constrained lot of record within the Natural Resources Overlay District. The total
impervious surface and encroachment into the Vegetated Corridor created by
the proposed development would be 1,500 sq. ft. with a setback of less than 25'
from the delineated resource. The application requires a Type III review.
- LOCATION: 16348 Frederick St, Oregon City, OR 97045 Clackamas County APN 2-2E-28BC-04001
- WEBPAGE: http://www.orcity.org/planning/landusecase/nr-16-01

NEIGHBORHOOD: Park Place Neighborhood Association

 SUBMITTED:
 12/23/2015

 COMPLETE:
 03/04/2015

 120-DAY DEADLINE:
 07/02/2016

REVIEWER:Pete Walter, AICP, PlannerMatt Palmer, EIT, Development Services Project EngineerDavid Evans and Associates (NROD)

RECOMMENDATION: Approval with Conditions.

PROCESS: Type III decisions involve the greatest amount of discretion and evaluation of subjective approval standards, yet are not heard by the city commission, except upon appeal. In the event that any decision is not classified, it shall be treated as a Type III decision. The process for these land use decisions is controlled by ORS 197.763. Notice of the application and the planning commission or the historic review board hearing is published and mailed to the applicant, recognized neighborhood association(s) and property owners within three hundred feet. Notice must be issued at least twenty days pre-hearing, and the staff report must be available at least seven days pre-hearing. At the evidentiary hearing held before the planning commission or the historic review board, all issues are

addressed. The decision of the planning commission or historic review board is appealable to the city commission on the record pursuant to Section 17.50.190. The city commission decision on appeal is the city's final decision and is subject to review by LUBA within twenty-one days of when it becomes final, unless otherwise provided by state law. The application, decision (including specific conditions of approval), and supporting documents are available for inspection at the Oregon City Planning Division. Copies of these documents are available (for a fee) upon request. A city-recognized neighborhood association requesting an appeal fee waiver pursuant to 17.50.290(C) must officially approve the request through a vote of its general membership or board at a duly announced meeting prior to the filing of an appeal. IF YOU HAVE ANY QUESTIONS ABOUT THIS APPLICATION, PLEASE CONTACT THE PLANNING DIVISION OFFICE AT (503) 722-3789.

Recommended Conditions of Approval

NR 16-01: Natural Resources Overlay District

Planning Division

(Applicant shall confirm with the Planning Division that the following Conditions of Approval are met)

- 1. Prior to building permit issuance, the applicant shall replace the Pacific Willow with additional red-osier dogwood or approved similar shrub species for approval by the City's consultant at the time of the building permit application.
- 2. Prior to building occupancy, the applicant shall record a restrictive covenant or conservation easement, in a form provided by the City, requiring the owners and assigns of properties subject to this section to comply with the applicable mitigation requirements of OCMC 17.49. Said covenant shall run with the land, and permit the City to complete mitigation work in the event of default by the responsible party. Costs borne by the City for such mitigation shall be borne by the owner.
- 3. Prior to building occupancy the applicant shall be responsible for providing the annual mitigation plan reports to the Planning Division pursuant to OCMC 17.49.180.F for the five year monitoring and maintenance period.

End of Conditions of Approval

I. BACKGROUND:

1. Existing Conditions

The subject property is a platted lot of record within the Clackamas Heights Subdivision (1889), in the Park Place neighborhood of Oregon City, north of Holcomb Boulevard and ½ a block west of Hiram Avenue. The lot measures approximately 50' by 100' and is zoned R-6 Single Family Residential.

According to the applicant, there was an existing shed on the western edge of the lot that has recently been demolished. The shed dimensions were approximately $15' \times 25'$. There was another small shed on the northwest corner of Lot 9 directly to the east that was also recently demolished. The dimensions were approximately $10' \times 10'$. There is an existing residence on the eastern portion of Lot 9, which abuts Hiram Ave. There is an existing residence to the south on tax lot 4100.

The city right-of-way for Frederick Street runs along the western boundary of Lot 4, an unimproved street. OCWebmaps illustrates utilities in the vicinity of Lot 4. Water utilities are shown running north up Frederick Street and stopping just shy of the subject property. Sewer utilities are depicted on the surrounding Hiram Avenue, Gain Street, Front Avenue, and Clear Street but not on Frederick Street. Stormwater utilities are depicted on Hiram Avenue and Front Avenue but not on Frederick Street.

Natural Features

The City's NROD map indicates that the entire property falls within the Natural Resources Overlay District. The stream is indicated on the City's adopted Local Wetland Inventory (LWI) (Shapiro, 1999). Street Reach PP-3 is a tributary to the Abernethy Creek Basin and is associated with a wetland that is shown on Map Section 28 of the LWI. The LWI indicates that *"This drainage ditch is a continuation of a drainage ditch located further upslope it is very channelized and even piped beneath several residential properties. The vegetation directly along the sides of the ditch varies from ornamental to native species It appears that many homeowners either mow the ditch or spray it with herbicide. Some portions are professionally landscaped. The majority of this ditch was viewed from roadways because access was denied by homeowners."* According to the LWI, the wetland does not meet the criteria for a Local Significant Wetland (See Exhibit 4).

The applicant included several photos of the ditch in the application, which indicates that the south side of the ditch is actually concreted in. It is unknown when the ditch was channelized or the concrete wall added.

According to the applicant, one freshwater perennial stream was identified within the project area. A wetland is present within the OHWL of the stream but the Interagency document Wetland Delineation Report Guidance (DSL/USACE/EPA, 2005) states that "In most instances, incidental amounts of wetland entirely within OHW do not need to be separately delineated." The creek flows from east to west along the northern property boundary. This reach of the creek is classified as Riverine Upper Perennial using Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al, 1979).

According to Oregon City Municipal Code ("OCMP") Table 17.49.110, a perennial stream has a 50-foot Vegetated Corridor.



Figure 1. Vicinity Map



Figure 2: Existing Conditions – Not to Scale

2. Project Description

The applicant proposes to construct a single-family residence on an existing Lot of Record which is entirely within the adopted Natural Resources Overlay District. The house would occupy 1,032 sq ft and the driveway, sidewalk, and rear patio would occupy 468 sq ft. The total impervious surface and encroachment into the Vegetated Corridor created by the proposed development would be 1,500 sq ft.

Code permits a maximum disturbance area of 1500 sf for a pre-existing lot of record, and a minimum setback of 25' from the OHW or top-of-bank of less than 25' from the delineated resource. The application requires a Type III review.



Figure 3: Proposed Site Plan – Not to Scale

3. Municipal Code Standards and Requirements: The following sections of the Oregon City Municipal Code are applicable to this land use approval:

17.49 - Natural Resource Overlay District 17.50 - Administration and Procedures

The City Code Book is available on-line at www.orcity.org.

4. Permits and Approvals: The applicant is responsible for obtaining approval and permits from each applicable governmental agency and department at Oregon City including but not limited to the Engineering and Building Divisions.

5. Notice and Public Comment

Public Notice of the public hearing for this application was provided pursuant OCMC 17.50.030(C) on April 18, 2016. Notice of the proposal was sent to various City departments, affected agencies, property owners within 300 feet, and the Neighborhood Association. Additionally, the subject property was posted with signs identifying that a land use action was occurring on the property. Notice was also provided in the April 13th, 2016 edition of the Clackamas Review / Oregon City News.

Public Comments

No public comments were submitted.

Staff gave a presentation (Exhibit 3) about the application to the Oregon City Natural Resources Committee (NRC), on April 13, 2016. The NRC unanimously approved the proposal.

6. Agency Comments

The application was transmitted for agency comments on April 18, 2016. No comments were received regarding the application.

The applicant will be seeking approval of public right-of-way improvements through a separate permit issued by the Public Works Department.

None of the comments provided indicate that an approval criterion has not been met or cannot be met through the Conditions of Approval attached to this Staff Report.

II. ANALYSIS AND FINDINGS:

17.49.[0]35 – Addition of wetlands to map following adoption

The NROD boundary shall be expanded to include a wetland identified during the course of a development permit review if it is within or partially within the mapped NROD boundary and meets the State of Oregon's definition of a "Locally Significant Wetland". In such cases the entire wetland and its required vegetated corridor as defined in Table 17.49.110 shall be regulated pursuant to the standards of this chapter. The NROD boundary shall be added to the NROD map by the community development director after the development permit becomes final.

Finding: Complies as proposed. The wetlands identified by Turnstone Environmental Consultants in the NROD Report (March 2016; Wetland Delineation Report completed December 4, 2015) are within the OHWL of the creek referred to as "Fergusson" (Unnamed per Oregon City, and USGS mapping). Therefore, the NROD boundary does not need to be expanded. Wetlands are shown on Figure 3, Wetland Delineation Map, in Appendix A of the applicant's NROD Report. Wetland delineation forms are in Appendix B. The applicant does not propose any fill or other activity in wetlands.

17.49.[0]40 - NROD Permit

An NROD permit is required for those uses regulated under Section 17.49.90, Uses Allowed under Prescribed Conditions. An NROD permit shall be processed under the Type II development permit procedure, unless an adjustment of standards pursuant to Section 17.49.200 is requested or the application is being processed in conjunction with a concurrent application or action requiring a Type III or Type IV development permit. Applications for development on properties affected by the NROD shall delineate or verify the exact location of the NROD as part of a Type I or II development review process unless exempted pursuant to section 17.40.080.

Finding: Complies as Proposed. The applicant submitted an NROD application to meet the requirements of this chapter. The application is being processed as a Type III. The applicant submitted an NROD Report by Turnstone Environmental Consultants, dated March 2016 (revised date).

17.49.050 Emergencies

The provisions of this ordinance do not apply to work necessary to protect, repair, maintain, or replace existing structures, utility facilities, roadways, driveways, accessory uses and exterior improvements in response to emergencies. After the emergency has passed, any disturbed native vegetation areas shall be replanted with similar vegetation found in the Oregon City Native Plant List pursuant to the mitigation standards of Section 17.49.180. For purposes of this section emergency shall mean any man-made or natural event or circumstance causing or threatening loss of life, injury to person or property, and includes, but is not limited to fire, explosion, flood, severe weather, drought, earthquake, volcanic activity, spills or releases of oil or hazardous material, contamination, utility or transportation disruptions, and disease.

Finding: Not applicable. This is not an emergency.

17.49.060 Consistency and Relationship to Other Regulations

A. Where the provisions of the NROD are less restrictive or conflict with comparable provisions of the Oregon City Municipal Code, other City requirements, regional, state or federal law, the provisions that provides the greater protection of the resource shall govern.

Finding: Not applicable. No conflicts within the Natural Resource Overlay District have arisen.

17.49.060.B. Compliance with Federal and State Requirements.

a. If the proposed development requires the approval of any other governmental agency, such as the Division of State Lands or the U.S. Army Corps of Engineers, the applicant shall make application for such approval prior to or simultaneously with the submittal of its development application to the City. The planning division shall coordinate City approvals with those of other agencies to the extent necessary and feasible. Any permit issued by the City pursuant to this chapter shall not become valid until other agency approvals have been obtained or those agencies indicate that such approvals are not required. b. The requirements of this chapter apply only to areas within the NROD and to locally significant wetlands that may be added to the boundary during the course of development review pursuant to Section 17.49.035. If, in the course of a development review, evidence suggests that a property outside the NROD may contain a wetland or other protected water resource, the provisions of this chapter shall not be applied to that development review. However, the omission shall not excuse the applicant from satisfying any state and federal wetland requirements which are otherwise applicable. Those requirements apply in addition to, and apart from the requirements of the City's comprehensive plan and this code.

Finding: Complies as proposed. The wetlands identified by Turnstone Environmental Consultants in the NROD Report (March 2016; Wetland Delineation Report completed December 4, 2015) are within the OHWL of the creek referred to as "Fergusson." Wetlands are shown on Figure 3, Wetland Delineation Map, in Appendix A of the applicant's NROD Report. Wetland delineation forms are in Appendix B. No additional wetlands outside of those associated with the stream occur on the lot or adjoining lots. The applicant does not propose any fill or other activity in wetlands, therefore, the proposal does not require approval from a state or federal agency.

17.49.[0]70 - Prohibited uses.

The following development and activities are not allowed within the NROD:

A. Any new gardens, lawns, structures, development, other than those allowed outright (exempted) by the NROD or that is part of a regulated use that is approved under prescribed conditions. Note: Gardens and lawns within the NROD that existed prior to the time the overlay district was applied to a subject property are allowed to continue but cannot expand further into the overlay district.

Finding: Not applicable. The applicant is only proposing development that is allowed outright or is part of a regulated use.

B. New lots that would have their buildable areas for new development within the NROD are prohibited. **Finding: Not applicable.** The applicant is not proposing the creation of any new lots.

C. The dumping of materials of any kind is prohibited except for placement of fill as provided in (D) below. The outside storage of materials of any kind is prohibited unless they existed before the overlay district was applied to a subject property. Uncontained areas of hazardous materials as defined by the Oregon Department of Environmental Quality (ORS 466.005) are also prohibited.

Finding: Not applicable. The applicant is not proposing to dump any materials.

D. Grading, the placement of fill in amounts greater than ten cubic yards, or any other activity that results in the removal of more than ten percent of the existing native vegetation on any lot within the NROD is prohibited, unless part of an approved development activity.

Finding: Complies as proposed. The applicant does not propose any fill or activities that are not part of approved development activity.

17.49.[0]80 –Uses allowed outright (Exempted).

The following uses are allowed within the NROD and do not require the issuance of an NROD permit:

A. Stream, wetland, riparian, and upland restoration or enhancement projects as authorized by the City.

B. Farming practices as defined in ORS 215.203 and farm uses, excluding buildings and structures, as defined in ORS 215.203.

C. Utility service using a single utility pole or where no more than 100 square feet of ground surface is disturbed outside of the top-of-bank of water bodies and where the disturbed area is restored to the pre-construction conditions.

D. Boundary and topographic surveys leaving no cut scars greater than three inches in diameter on live parts of native plants listed in the Oregon City Native Plant List.

E. Soil tests, borings, test pits, monitor well installations, and other minor excavations necessary for geotechnical, geological or environmental investigation, provided that disturbed areas are restored to pre-existing conditions as approved by the Community Development Director.

F. Trails meeting all of the following:

1. Construction shall take place between May 1 and October 30 with hand held equipment;

2. Widths shall not exceed 48 inches and trail grade shall not exceed 20 percent;

3. Construction shall leave no scars greater than three inches in diameter on live parts of native plants;

4. Located no closer than 25 feet to a wetland or the top of banks of a perennial stream or 10 feet of an intermittent stream;

5. No impervious surfaces; and

6. No native trees greater than one (1) inch in diameter may be removed or cut, unless replaced with an equal number of native trees of at least 2-inch diameter and planted within 10 feet of the trail.

G. Land divisions provided they meet the following standards, and indicate the following on the final plat:

1. Lots shall have their building sites (or buildable areas) entirely located at least 5 feet from the NROD boundary shown on the City's adopted NROD map. For the purpose of this subparagraph, "building site" means an area of at least 3,500 square feet with minimum dimensions of 40 feet wide by 40 feet deep;

2. All public and private utilities (including water lines, sewer lines or drain fields, and stormwater disposal facilities) are located outside the NROD;

3. Streets, driveways and parking areas where all pavement shall be located at least 10 feet from the NROD; and 4. The NROD portions of all lots are protected by:

a. A conservation easement; or

b A lot or tract created and dedicated solely for unimproved open space or conservation purposes. H. Site Plan and Design Review applications where all new construction is located outside of the NROD boundary shown on the City's adopted NROD map, and the NROD area is protected by a conservation easement approved in form by the City.

I. Routine repair and maintenance of existing structures, roadways, driveways and utilities.

J. Replacement, additions, alterations and rehabilitation of existing structures, roadways, utilities, etc., where the ground level impervious surface area is not increased.

K. Measures mandated by the City of Oregon City to remove or abate nuisances or hazardous conditions.

L. Planting of native vegetation and the removal of non-native, invasive vegetation (as identified on the Oregon City Native Plant List), and removal of refuse and fill, provided that:

1. All work is done using hand-held equipment;

2. No existing native vegetation is disturbed or removed; and

3. All work occurs outside of wetlands and the top-of-bank of streams.

Finding: Not applicable. The proposed development is a single-family house and does not include enhancement; farming; surveys; testing; trails; land divisions; construction outside the NROD boundary; repair, maintenance, alterations to existing development; or abatement. It does include L., planting native vegetation and removal of non-native vegetation. However, the application requires issuance of an NROD permit.

17.49.090 Uses Allowed Under Prescribed Conditions

The following uses within the NROD are subject to the applicable standards listed in Sections 17.49.100 through 17.49.190 pursuant to a Type II process:

A. Alteration to existing structures within the NROD when not exempted by Section 17.49.080, subject to Section 17.49.130.

B. A residence on a highly constrained vacant lot of record that has less than 3,000 square feet of buildable area, with minimum dimensions of 50 feet by 50 feet, remaining outside the NROD portion of the property, subject to the maximum disturbance allowance prescribed in subsection 17.49.120.A.

C. A land division that would create a new lot for an existing residence currently within the NROD, subject to Section 17.49.160.

D. Land divisions when not exempted by Section 17.49.080, subject to the applicable standards of Section 17.49.160.

E. Trails/pedestrian paths when not exempted by Section 17.49.080, subject to Section 17.49.170 (for trails) or Section 17.49.150 (for paved pedestrian paths).

F. New roadways, bridges/creek crossings, utilities or alterations to such facilities when not exempted by Section 17.49.080,

G. Roads, bridges/creek crossings Subject to Section 17.49.150 --

H. Utility lines subject to Section 17.49.140 (

I. Stormwater detention or pre-treatment facilities subject to Section 17.49.155 ().

J. Institutional, Industrial or Commercial development on a vacant lot of record situated in an area designated for such use that has more than 75% of its area covered by the NROD, subject to subsection 17.49.120(B). K City, county and state capital improvement projects, including sanitary sewer, water and storm water facilities, water stations, and parks and recreation projects.

Finding: Applicable. The proposed development does not include alteration of an existing structure; a land division; a trail; roadway; creek crossing; stormwater facility; institutional, industrial, or commercial development; or a capital improvement project. The proposal is for a residence on a highly constrained lot of record within the NROD (B.).

17.49.100 General Development Standards

The following standards apply to all Uses Allowed under Prescribed Conditions within the NROD with the exception of rights of ways (subject to Section 17.49.150), trails (subject to Section 17.49.170), utility lines (subject to Section 17.49.140), land divisions (subject to Section 17.49.160), and mitigation projects (subject to Section 17.49.180 or 17.49.190):

A. Native trees may be removed only if they occur within 10 feet of any proposed structures or within 5 feet of new driveways or if deemed not wind-safe by a certified arborist. Trees listed on the Oregon City Nuisance Plant List or Prohibited Plant List are exempt from this standard and may be removed. A protective covenant shall be required for any native trees that remain;

Finding: Not applicable. There are no native trees on the property.

17.49.100.B. The Community Development Director may allow the landscaping requirements of the base zone, other than landscaping required for parking lots, to be met by preserving, restoring and permanently protecting habitat on development sites in the Natural Resource Overlay District.

Finding: Not applicable. The base zone does not have any landscaping requirements other than the residential landscape requirements of OCMC 17.20. The applicant has proposed landscaping requirements in accordance with the NROD.

17.49.100.C. All vegetation planted in the NROD shall be native and listed on the Oregon City Native Plant List; **Finding: Complies with condition.** The Mitigation Plan (Figure 4) and NROD Report clearly define the nature of the development, the existing conditions, and the mitigation measures. The proposed plants are native. However, there is one concern. Pacific Willow is listed as a tree in Table 3, Plant Specifications, in Section 5.4 of the NROD Report (p. 25). However, it is categorized as a shrub on the mitigation plan (Figure 4) to be planted in the tight constraints of Planting Area A. As Planting Area A already has many shrub willows proposed, the Pacific Willow shall be eliminated from the applicant's plant list and the quantity be made up in additional red-osier dogwood. The applicant shall review this recommendation and propose an alternative for approval by the City's consultant at the time of the building permit application. **Staff has determined that it is reasonable and likely that the applicant can meet this standard through compliance with the Conditions of Approval.**

17.49.100.D. Grading is subject to installation of erosion control measures required by the City of Oregon; **Finding:** Compliance with grading standards and erosion control measures will be determined at the time a building permit application is submitted.

17.49.100.E. The minimum front, street, or garage setbacks of the base zone may be reduced to any distance between the base zone minimum and zero in order to minimize the disturbance area within the NROD portion of the lot;

Finding: Not applicable. A reduction in the minimum setback has not been proposed.

17.49.100.F. Any maximum required setback in any zone, such as for multi-family, commercial or institutional development, may be increased to any distance between the maximum and the distance necessary to minimize the disturbance area within the NROD portion of the lot;

Finding: Not applicable. An increase in the maximum setback has not been proposed.

17.49.100.G. Fences are allowed only within the disturbance area;

Finding: Not applicable. The applicant has not proposed a fence within the vegetated corridor. An existing fence would be removed.

17.49.100.H. Incandescent lights exceeding 200 watts (or other light types exceeding the brightness of a 200 watt incandescent light) shall be placed or shielded so that they do not shine directly into resource areas; **Finding: Complies as proposed.** The applicant states in the NROD Report that any lights exceeding 200 watts will be placed or shielded so as to not shine into the resource area. The proposed use is a single-family residence, which does not utilize extensive outdoor lighting.

17.49.100.I. If development will occur within the 100 yr. floodplain, the FEMA floodplain standards of Chapter 17.42 shall be met; and

Finding: Not applicable. The proposed development occurs outside of the FEMA floodplain.

17.49.100.J. Mitigation of impacts to the regulated buffer is required, subject to Section 17.49.180 or 17.49.190. **Finding: Complies as proposed.** A mitigation plan has been provided for impacts. Please refer to the analysis in Section 17.49.180.

17.49.110 Width of Vegetated Corridor.

Calculation of Vegetated Corridor Width within City Limits. The NROD consists of a vegetated corridor measured from the top of bank or edge of a protected habitat or water feature. The minimum required width is the amount of buffer required on each side of a stream, or on all sides of a feature if non-linear. The width of the vegetated corridor necessary to adequately protect the habitat or water feature is specified in Table 17.49.110. **Table 17.49.110**

Protected Water Feature Type (see definitions)	Slope Adjacent to Protected Water Feature	Starting Point for Measurements from Water Feature	Width of Vegetated Corridor (see Note 1)
Anadromous fish- bearing streams	Any slope	• Edge of bankfull flow	200 feet
Intermittent streams with slopes less than 25 percent and which drain less than 100 acres	< 25 percent	• Edge of bankfull flow	15 feet
All other protected water features	< 25 percent	 Edge of bankfull flow Delineated edge of Title 3 wetland 	50 feet
	≥ 25 percent for 150 feet or more (see Note 2)		200 feet

	Distance from
\geq 25 percent for	starting point of
less	measurement to top
than 150 feet (see	of ravine
Note	(break in ≥25
2)	percent slope) (See
	Note 3) plus 50 feet.

Notes:

- 1. Required width (measured horizontally) of vegetated corridor unless reduced pursuant to the provisions of Section 17.49.050(I).
- 2. Vegetated corridors in excess of fifty feet apply on steep slopes only in the uphill direction from the protected water feature.
- 3. Where the protected water feature is confined by a ravine or gully, the top of the ravine is the break in the \geq 25 percent slope.
- B. Habitat Areas within City Parks. For habitat and water features identified by Metro as regionally significant which are located within city parks, the NROD Boundary shall correspond to the Metro Regionally Significant Habitat Map.
- C. Habitat Areas outside city limit / within UGB. For habitat and water features identified by Metro as regionally significant which are located outside of the city limits as of the date of adoption of this ordinance, the minimum corridor width from any non-anadramous fish bearing stream or wetland shall be fifty feet (50').

Finding: Complies as proposed. The creek that the applicant refers to as "Fergusson" is perennial and not anadromous fish-bearing and slopes on the subject site are less than 25 percent. Therefore, according to Table 17.49.110, the vegetated corridor is 50 feet.

17.49.120 Maximum Disturbance Allowance for Highly Constrained Lots of Record

In addition to the General Development Standards of Section 17.49.100, the following standards apply to a vacant lot of record that is highly constrained by the NROD, per subsections 17.49.90(B) and 17.49.90(F):

A. Standard for Residential Development. In the NROD where the underlying zone district is zoned Residential (R-10, R-8, R-6, R-5, R-3.5): the maximum disturbance area allowed for new residential development within the NROD area of the lot is 3,000 square feet.

Finding: Complies as proposed. The site is in R-6 and is a highly constrained lot of record. The disturbance area, as shown on Figure 7, is 1,460 square feet.

- B. Standard for all developments not located in R-10, R-8, R-6, R-5, and R-3.5. For all other underlying zone districts, including R-2 multifamily, the maximum disturbance area allowed for a vacant, constrained lot of record development within the NROD is that square footage which when added to the square footage of the lot lying outside the NROD portion equals 25% of the total lot area.
 - [1] Lots that are entirely covered by the NROD will be allowed to develop 25% of their area.
 - [1] Note: This can be determined by (1) Multiplying the total square footage of the lot by .25; (2) Subtracting from that amount the square footage of the lot that is located outside the NROD; (3) The result is the maximum square footage of disturbance to be allowed in the NROD portion of the lot. If the result is < or = to 0, no disturbance is permitted and the building shall be located outside of the boundary.</p>

Finding: Not applicable. The site is in R-6 Single-Family Dwelling District.

C. In all areas of Oregon City, the disturbance area of a vacant, highly constrained lot of record within the NROD shall be set back at least 50 feet from the top of bank on Abernethy Creek, Newell Creek, or Livesay Creek or 25 feet from the top of bank of any tributary of the afore-mentioned Creeks, other water body, or from the delineated edge of a wetland located within the NROD area.

Finding: Complies as proposed. The site is a highly constrained lot of record and the disturbance area is entirely within 25 feet of the top of bank of the stream that the applicant refers to as Fergusson Creek. Therefore, D., below, is applicable. The applicant's proposed disturbance area (house) is 17 feet from the top of bank, which is less than the 25-foot minimum. Therefore, the applicant is requesting an adjustment from standards. See findings for 17.49.200, below.

D. If the highly constrained lot of record cannot comply with the above standards, a maximum 1500 square foot disturbance within the NROD area may be allowed

Finding: Complies as proposed. The site is a highly constrained lot of record and does not comply with 17.49.120 C. The maximum area of disturbance, per Figure 7, is 1,460 square feet, less than the 1,500 maximum. Therefore the proposal complies with this standard.

17.49.130 Existing Development Standards

In addition to the General Development Standards of Section 17.49.100, the following standards apply to alterations and additions to existing development within the NROD, except for trails, rights of way, utility lines, land divisions and mitigation projects. Replacement, additions, alterations and rehabilitation of existing structures, roadways, utilities, etc., where the ground level impervious surface area is not increased are exempt from review pursuant to Section 17.49.080(J). As of June 1, 2010, applicants for alterations and additions to existing development that are not exempt pursuant to Section 17.49.080(J) shall submit a Type II or Type III application pursuant to this section. The application shall include a site plan which delineates a permanent disturbance area that includes all existing buildings, parking and loading areas, paved or graveled areas, patios and decks. The same delineated disturbance area shall be shown on every subsequent proposal for alterations and additions meeting this standard.

A. The following alterations and additions to existing development are permitted subject to the following standards.

- 1. Alterations or additions that cumulatively total up to a maximum of five-hundred (500) square feet of additional disturbance area after June 1, 2010 shall be processed as a Type II permit pursuant to this Chapter. The new disturbance area shall not encroach closer than 1/2 of the distance of the regulated NROD buffer.
- 2. Alterations or additions that cumulatively exceed five-hundred (500) square feet of additional disturbance area or which propose encroachment closer than 1/2 of the distance of the regulated NROD buffer after June 1, 2010 shall be processed as a Type III permit pursuant to Section 17.49.200, Adjustment from Standards.

B. Mitigation is required, subject to Section 17.49.180 or 17.49.190.

Finding: Not applicable. The only existing development on the site are a 265.6-square-foot shed and a 302.4-square-foot shed, both of which would be removed. The applicant does not propose any alterations or additions to existing development.

17.49.140 Standards for Utility Lines

The following standards apply to new utilities, private connections to existing or new utility lines, and upgrades of existing utility lines within the NROD:

A. The disturbance area for private connections to utility lines shall be no greater than 10 feet wide; Finding: Complies as proposed. The proposal includes a three-foot-wide utility trench, which meets this maximum standard of ten feet. The water, sanitary sewer, and gas lines would be in the trench. Electric line would be overhead.

B. The disturbance area for the upgrade of existing utility lines shall be no greater than 15 feet wide; **Finding: Not applicable.** The proposal does not include an upgrade of an existing utility line.

C. New utility lines shall be within the right-of-way, unless reviewed under D.

Finding: Complies as proposed. The proposed utility trench is not within the right-of-way; see finding for D., below.

D. New utility lines that cross above or underneath a drainage way, wetland, stream, or ravine within the NROD but outside of a right-of-way shall be processed as a Type III permit pursuant to Section 17.49.200, Adjustment from Standards.

Finding: Complies as proposed. The proposed new utility lines to not cross above or below any drainage way, wetland, stream, or ravine. The trench and overhead electric line would be on the far side of the property from the creek referred to as "Fergusson" and its associated wetlands.

E. No fill or excavation is allowed within the ordinary high water mark of a stream without the approval of the Division of State Lands and/or the U.S. Army Corps of Engineers;

Finding: Not applicable. The proposal does not include any fill or excavation in the OHW of the stream.

F. The Division of State Lands must approve any work that requires excavation or fill in a wetland; **Finding: Not applicable.** The proposal does not include any fill or excavation in a wetland.

G. Native trees more than 10 inches in diameter shall not be removed unless it is shown that there are no feasible alternatives; and

Finding: Not applicable. The applicant does not propose to remove trees for utilities installation.

H. Each 6 to 10-inch diameter native tree cut shall be replaced at a ratio of three trees for each one removed. Each 11-inch or greater diameter native tree shall be replaced at a ratio of five trees for each removed. The replacement trees shall be a minimum one-half inch diameter and selected from the Oregon City Native Plant List. All trees shall be planted on the applicant's site. Where a utility line is approximately parallel with the stream channel, at least half of the replacement trees shall be planted between the utility line and the stream channel.

Finding: Not applicable. The applicant does not propose to remove trees for utilities installation.

I. Mitigation is required, subject to Section 17.49.180 or 17.49.190.

Finding: Not applicable. Mitigation is not required for installation of utilities, but the applicant is proposing mitigation for the overall development proposal.

17.49.150 Standards for Vehicular or Pedestrian Paths and Roads

The following standards apply to public rights-of-way and private roads within the NROD, including roads, bridges/stream crossings, driveways and pedestrian paths with impervious surfaces:

17.49.150 A. Stream crossings shall be limited to the minimum number and width necessary to ensure safe and convenient pedestrian, bicycle and vehicle connectivity, and shall cross the stream at an angle as close to perpendicular to the stream channel as practicable. Bridges shall be used instead of culverts wherever practicable. **Finding: Not applicable.** The proposal does not include any stream crossings.

17.49.150.B. Where the right-of-way or private road crosses a stream the crossing shall be by bridge or a bottomless culvert;

Finding: Complies as proposed. The proposal does not include a private road. The proposed driveway accessed from Frederick Street does not cross the stream referred to as "Fergusson"—it is on the other side of the lot from the stream.

17.49.150.C. No fill or excavation shall occur within the ordinary high water mark of a stream without the approval of the Division of State Lands and/or the U.S. Army Corps of Engineers;

Finding: Not applicable. The proposal does not include any fill or excavation in the OHW of the stream.

17.49.150.D. If the Oregon Department of State Lands (DSL) has jurisdiction over any work that requires excavation or fill in a wetland, required permits or authorization shall be obtained from DSL prior to release of a grading permit;

Finding: Not applicable. The proposal does not include any fill or excavation in a wetland.

17.49.150.E. Any work that will take place within the banks of a stream shall be conducted between June 1 and August 31, or shall be approved by the Oregon Department of Fish and Wildlife; and

Finding: Not applicable. The proposal does not include any work within the stream.

17.49.150.F. Mitigation is required, subject to Section 17.49.180 or 17.49.190.

Finding: Complies as proposed. A mitigation plan has been provided for impacts. Please refer to the findings in Section 17.49.180.

17.49.155 Standards for Stormwater Facilities

Approved facilities that infiltrate stormwater on-site in accordance with Public Works Low-Impact Development standards, including but not limited to; vegetated swales, rain gardens, vegetated filter strips, and vegetated infiltration basins, and their associated piping, may be placed within the NROD boundary pursuant to the following standards:

A. The forest canopy within the driplines of existing trees shall not be disturbed.

B. Only vegetation from the Oregon City Native Plant List shall be planted within these facilities.

C. Mitigation is required, subject to Section 17.49.180 or 17.49.190.

D. The storm water facility may encroach up to1/2 the distance of the NROD corridor.

E. The stormwater facility shall not impact more than 1,000 square feet of the NROD. Impacts greater than 1,000 square feet shall be process as a Type III application.

F. The Community Development Director may allow landscaping requirements of the base zone, other than landscaping required for parking lots, to be met by preserving, restoring and permanently protecting habitat on development sites within the Natural Resource Overlay District.

Finding: Not applicable. The proposal does not include stormwater facilities. The applicant proposes stormwater drainage along the driveway to Frederick Street.

17.49.160 Standards for Land Divisions

Other than those land divisions exempted by Section 17.49.070 (G), new residential lots created within the NROD shall conform to the following standards.

A. For a lot for an existing residence currently within the NROD. This type of lot is allowed within the NROD for a residence that existed before the NROD was applied to a subject property. A new lot for an existing house may be created through a partition or subdivision process when all of the following are met:

- 1. There is an existing house on the site that is entirely within the NROD area; and
- 2. The existing house will remain; and
- 3. The new lot is no larger than required to contain the house, minimum required side setbacks, garage, driveway and a 20-foot deep rear yard, with the remaining NROD area beyond that point protected by a conservation easement, or by dedicating a conservation tract or public open space.
- B. Subdivisions.
- 1. Prior to preliminary plat approval, the NROD area shall be shown either as a separate tract or part of a larger tract that meets the requirements of subsection (3) of this section, which shall not be a part of any parcel used for construction of a dwelling unit.
- Prior to final plat approval, ownership of the NROD tract shall be identified to distinguish it from lots intended for sale. The tract may be identified as any one of the following:
 a. Private open space held by the owner or a homeowners association; or
 - b. For residential land divisions, private open space subject to an easement conveying stormwater and surface water management rights to the city and preventing the owner of the tract from activities and uses inconsistent with the purpose of this document; or
 - c. At the owners option, public open space where the tract has been dedicated to the city or other governmental unit; or
 - d. Any other ownership proposed by the owner and approved by the city.
 - e. Tracts shall be exempt from minimum frontage requirements.
- C. Partitions
- 1. New partitions shall delineate the NROD area either as a separate tract or conservation easement that meets the requirements of subsection (2) of this section.
- 2. Prior to final plat approval, ownership and maintenance of the NROD area shall be identified to distinguish it from the buildable areas of the development site. The NROD area may be identified as any one of the following:
 - a. A tract of private open space held by the owner or homeowners association; or
 - b. For residential land divisions, a tract of private open space subject to an easement conveying stormwater and surface water management rights to the city and preventing the owner of the tract from activities and uses inconsistent with the purpose of this document; or
 - c. At the owners option, public open space where the tract has been dedicated to the city or other

governmental unit;

- d. Conservation easement area pursuant to subsection 17.49.180(G) and approved in form by the Community Development Director
- e. Any other ownership proposed by the owner and approved by the Community Development Director.
- f. Tracts shall be exempt from minimum frontage requirements.

Finding: Not Applicable. The applicant has not proposed a land division.

17.49.170 Standards for Trails

The following standards apply to trails within the NROD:

A. All trails that are not exempt pursuant to Section 17.49.80(F), , except as designated in the Oregon City Parks, Open Space and Trails Master Plans; and

B. Mitigation is required, subject to Section 17.49.180 or 17.49.190.

Finding: Not Applicable. The applicant has not proposed a trail.

17.49.180. Mitigation Standards

The following standards (or the alternative standards of Section 17.49.190) apply to required mitigation: **17.49.180.A**. Mitigation shall occur at a 2:1 ratio of mitigation area to proposed NROD disturbance area. Mitigation of the removal or encroachment of a wetland or stream shall not be part of this chapter and will be reviewed by the Division of State Lands or the Army Corp of Engineers during a separate review process; **17.49.180.B**. Mitigation shall occur on the site where the disturbance occurs, except as follows:

1. The mitigation is required for disturbance associated with a right-of-way or utility in the right-of-way;

2. The mitigation shall occur first on the same stream tributary, secondly in the Abernethy, Newell or Livesay Creek or a tributary thereof, or thirdly as close to the impact area as possible within the NROD; and

3. An easement that allows access to the mitigation site for monitoring and maintenance shall be provided as part of the mitigation plan.

17.49.180.C. Mitigation shall occur within the NROD area of a site unless it is demonstrated that this is not feasible because of a lack of available and appropriate area. In such cases, the proposed mitigation area shall be contiguous to the existing NROD area so the NROD boundary can be easily extended in the future to include the new resource site.

17.49.180.D. Invasive and nuisance vegetation shall be removed within the mitigation area;

17.49.180.E. Required Mitigation Planting. An applicant shall meet Mitigation Planting Option 1 or 2 below, whichever option results in more tree plantings, except that where the disturbance area is one acre or more, Mitigation Option 2 shall be required. All trees, shrubs and ground cover shall be selected from the Oregon City Native Plant List.

Mitigation Planting Option 1.

17.49.180.E.2. Mitigation Planting Option 2.

17.49.180.E.2a. Option 2 - Planting Quantity. In this option, the mitigation requirement is calculated based on the size of the disturbance area within the NROD. Native trees and shrubs are required to be planted at a rate of five (5) trees and twenty-five (25) shrubs per every 500 square feet of disturbance area (calculated by dividing the number of square feet of disturbance area by 500, and then multiplying that result times five trees and 25 shrubs, and rounding all fractions to the nearest whole number of trees and shrubs; for example, if there will be 330 square feet of disturbance area, then 330 divided by 500 equals .66, and .66 times five equals 3.3, so three trees must be planted, and .66 times 25 equals 16.5, so 17 shrubs must be planted). Bare ground must be planted or seeded with native grasses or herbs. Non-native sterile wheat grass may also be planted or seeded, in equal or lesser proportion to the native grasses or herbs.

17.49.180.E.2.b Option 2 - Plant Size. Plantings may vary in size dependent on whether they are live cuttings, bare root stock or container stock, however, no initial plantings may be shorter than 12 inches in height.

Finding: Complies as proposed. All woody plant material, trees and shrubs will be 12" or taller at installation. The requirement cannot apply to wetland plants, emergent plants or groundcover plants, many of which will not be 12" in height at maturity.

17.49.180.E.2.c Option 2 - Plant Spacing. Trees shall be planted at average intervals of seven (7) feet on center. Shrubs may be planted in single-species groups of no more than four (4) plants, with clusters planted on average between 8 and 10 feet on center.

17.49.180.E.2.d Option 2 – Mulching and Irrigation shall be applied in the amounts necessary to ensure 80%

survival at the end of the required 5-year monitoring period.

17.49.180.E.2.e Option 2 – Plant Diversity. Shrubs shall consist of at least three (3) different species. If 20 trees or more are planted, no more than one-third of the trees may be of the same genus.

An alternative planting plan using native plants may be approved in order to create a new wetland area, if it is part of a wetlands mitigation plan that has been approved by the DSL or the U.S. Army Corps of Engineers (USACE) in conjunction with a wetland joint removal/fill permit application.

Finding: Not Applicable. The applicant proposes to meet the alternative mitigation standards of 17.49.190.

17.49.180.F. Monitoring and Maintenance. The mitigation plan shall provide for a 5-year monitoring and maintenance plan with annual reports in a form approved by the Director of Community Development. Monitoring of the mitigation site is the on-going responsibility of the property owner, assign, or designee, who shall submit said annual report to the City's Planning Division, documenting plant survival rates of shrubs and trees on the mitigation site. Photographs shall accompany the report that indicate the progress of the mitigation. A minimum of 80% survival of trees and shrubs of those species planted is required at the end of the 5-year maintenance and monitoring period. Any invasive species shall be removed and plants that die shall be replaced in kind. Bare spots and areas of invasive vegetation larger than ten (10) square feet that remain at the end the 5 year monitoring period shall be replanted or reseeded with native grasses and ground cover species.

Finding: Complies with conditions. The mitigation plan section of the NROD Report (Section 5) states that, "Maintenance would be conducted once per month between April and October throughout the five-year monitoring period.... Monitoring will be conducted once per year throughout the five-year monitoring period. Monitoring will occur late in the growing season before deciduous leaves begin to fall. Monitoring reports will be submitted prior to December 31 of each monitoring year." The applicant shall be responsible for providing the mitigation plan reports pursuant to OCMC 17.49.180.F for the five year period as provided in this section. **Staff has determined that it is reasonable and likely that the applicant can meet this standard through compliance with the Conditions of Approval.**

17.49.180.G. Covenant or Conservation Easement. Applicant shall record a restrictive covenant or conservation easement, in a form provided by the City, requiring the owners and assigns of properties subject to this section to comply with the applicable mitigation requirements of this section. Said covenant shall run with the land, and permit the City to complete mitigation work in the event of default by the responsible party. Costs borne by the City for such mitigation shall be borne by the owner.

Finding: Complies with condition. The applicant includes this language in the Mitigation Plan section of the NROD Report. The applicant record a restrictive covenant or conservation easement, in a form provided by the City, requiring the owners and assigns of properties subject to this section to comply with the applicable mitigation requirements of this section. Said covenant shall run with the land, and permit the City to complete mitigation work in the event of default by the responsible party. Costs borne by the City for such mitigation shall be borne by the owner. **Staff has determined that it is reasonable and likely that the applicant can meet this standard through compliance with the Conditions of Approval.**

17.49.180.H. Financial Guarantee. A financial guarantee for establishment of the mitigation area, in a form approved by the City, shall be submitted before development within the NROD disturbance area commences. The City will release the guarantee at the end of the five-year monitoring period, or before, upon its determination that the mitigation plan has been satisfactorily implemented pursuant to this section.

Finding: Complies as proposed. The applicant includes this language in the Mitigation Plan section of the NROD Report.

17.49.190 Alternative Mitigation Standards

In lieu of the above mitigation standards of Section 17.49.180, the following standards may be used. Compliance with these standards shall be demonstrated in a mitigation plan report prepared by an environmental professional with experience and academic credentials in one or more natural resource areas such as ecology, wildlife biology, botany, hydrology or forestry. At the applicant's expense, the City may require the report to be reviewed by an

environmental consultant.

Finding: Complies as proposed. The applicant proposes alternative mitigation in lieu of the standards in 17.49.180. The NROD Report was prepared by Turnstone Environmental Consultants.

A. The report shall document the existing condition of the vegetated corridor as one of the following categories:

Good Existing Corridor:	Combination of trees, shrubs and groundcover are eighty percent present, and there is more than fifty percent tree canopy coverage in the vegetated corridor.
Marginal Existing Vegetated Corridor:	Combination of trees, shrubs and groundcover are eighty percent present, and twenty-five to fifty percent canopy coverage in the vegetated corridor.
Degraded Existing Vegetated Corridor:	Less vegetation and canopy coverage than marginal vegetated corridors, and/or greater than ten percent surface coverage of any non-native species.

Finding: Complies as proposed. The NROD Report, in Tables 1 and 2, assesses the existing condition of the creek function and the vegetated corridor function as low.

B. The proposed mitigation shall occur at a minimum 2:1 ratio of mitigation area to proposed disturbance area; **Finding: Complies as proposed.** The applicant proposed 650 square feet of enhancement of the stream and 2,350 square feet of enhancement of the vegetated corridor, for a total of 3,000 square feet, which is more than double the 1,460 square feet of proposed disturbance.

C. The proposed mitigation shall result in a significant improvement to Good Existing Condition as determined by a qualified environmental professional;

Finding: Complies as proposed. The NROD Report, in Tables 1 and 2, assesses the proposed condition of the creek function and the vegetated corridor function as mostly moderate, with some high conditions and low channel sinuosity. The NROD Report was prepared by Turnstone Environmental Consultants.

D. There shall be no detrimental impact on resources and functional values in the area designated to be left undisturbed;

Finding: Complies as proposed. The proposed removal of non-natives and plantings of natives would improve the creek function and the vegetated corridor function.

E. Where the proposed mitigation includes alteration or replacement of development in a stream channel, wetland, or other water body, there shall be no detrimental impact related to the migration, rearing, feeding or spawning of fish;

Finding: Not applicable. No alteration or development is proposed in the stream or wetlands except plantings, which would enhance habitat.

F. Mitigation shall occur on the site of the disturbance to the extent practicable. If the proposed mitigation cannot practically occur on the site of the disturbance, then the applicant shall possess a legal instrument, such as an easement, sufficient to carryout and ensure the success of the mitigation.

Finding: Complies as proposed. Mitigation planting would occur mostly on the subject lot, but some within the Frederick Street right-of-way and some on the adjacent Lot 9 to the east, as approved by the City.

17.49.200. Adjustment from Standards

If a regulated NROD use cannot meet one or more of the applicable NROD standards then an adjustment may be issued if all of the following criteria are met. Compliance with these criteria shall be demonstrated by the applicant in a written report prepared by an environmental professional with experience and academic credentials in one or more natural resource areas such as ecology, wildlife biology, botany, hydrology or forestry. At the applicant's expense, the City may require the report to be reviewed by an environmental consultant. Such requests shall be processed under the Type III development permit procedure. The applicant shall demonstrate: 17.49.200.A. There are no feasible alternatives for the proposed use or activity to be located outside the NROD area or to be located inside the NROD area and to be designed in a way that will meet all of the applicable NROD development standards;

17.49.200.B. The proposal has fewer adverse impacts on significant resources and resource functions found in the local NROD area than actions that would meet the applicable environmental development standards; 17.49.200.C. The proposed use or activity proposes the minimum intrusion into the NROD area that is necessary to meet development objectives;

17.49.200.D. Fish and wildlife passage will not be impeded;

17.49.200.E. With the exception of the standard(s) subject to the adjustment request, all other applicable NROD standards can be met; and

17.49.200.F. The applicant has proposed adequate mitigation to offset the impact of the adjustment. **Finding: Complies as proposed.** As shown on Figure 7 (Proposed Site Plan), the applicant's proposed disturbance area (house) is 17 feet from the top of bank of the stream that the applicant refers to as Fergusson Creek, which is less than the 25-foot minimum for a vacant, highly constrained lot of record per 17.49.120 C. Therefore, the applicant is requesting an adjustment from standards and the application is being reviewed with a Type III process. The applicant submitted an NROD Report by Turnstone Environmental Consultants, a professional environmental consulting firm (March 2016, revised).

17.49.200.A. There are no feasible alternatives for the proposed use or activity to be located outside the NROD area or to be located inside the NROD area and to be designed in a way that will meet all of the applicable NROD development standards;

Finding: Complies as proposed. The entire lot is mapped in the NROD, therefore there are no alternatives that would have the residence located at least 25 feet from the top of bank. The lot is 49.53 feet wide. With the top of bank approximately 4.5 feet from the north lot line and a 5-foot setback from the south lot line, the remaining 40 feet allows for a 23-foot house (a standard width) and a 17-foot disturbance area setback.

17.49.200.B. The proposal has fewer adverse impacts on significant resources and resource functions found in the local NROD area than actions that would meet the applicable environmental development standards; **Finding: Complies as proposed.** The applicant proposes to remove non-native vegetation and plant native vegetation along the stream. The stream and wetlands functions would be improved and enhanced in comparison with existing conditions. The applicant states that "runoff would be dispersed in the Vegetated Corridor to offset peak flows during precipitation events." There is no action that would allow the lot to be developed with an approved use (single-family residence) that would have fewer adverse impacts.

17.49.200.C. The proposed use or activity proposes the minimum intrusion into the NROD area that is necessary to meet development objectives;

Finding: Complies as proposed. The entire 49.53-foot-wide lot is mapped in the NROD. With the top of bank approximately 4.5 feet from the north lot line and a 5-foot setback from the south lot line, the remaining 40 feet allows for a 23-foot house (a standard width) and a 17-foot disturbance area setback. The position of the house is designed to minimize the intrusion into the 25-foot-wide vegetated corridor standard.

17.49.200.D. Fish and wildlife passage will not be impeded;

Finding: Complies as proposed. The applicant does not propose any impediment to fish or wildlife passage. The proposal includes non-native removal and native plantings to enhance stream habitat.

17.49.200.E. With the exception of the standard(s) subject to the adjustment request, all other applicable NROD standards can be met; and

Finding: Complies as proposed. The applicant meets other standards, as described in the findings for other sections.

17.49.200.F. The applicant has proposed adequate mitigation to offset the impact of the adjustment. **Finding: Complies as proposed.** As described in the findings for 17.49.190, the applicant proposes adequate mitigation—650 square feet of enhancement of the stream and 2,350 square feet of enhancement of the vegetated corridor, for a total of 3,000 square feet, which is more than double the 1,460 square feet of proposed disturbance.

17.49.210 Type II Development Permit Application

Finding: Not Applicable. The applicant has proposed a Type III application.

17.49.220 Required Site Plans

Site plans showing the following required items shall be part of the application:

A. For the entire subject property (NROD and non-NROD areas):

- 1. The NROD district boundary. This may be scaled in relation to property lines from the NROD Map;
- 2. 100 year floodplain and floodway boundary (if determined by FEMA);
- 3. Creeks and other waterbodies;
- 4. Any wetlands, with the boundary of the wetland that will be adjacent to the proposed development determined in a wetlands delineation report prepared by a professional wetland specialist and following the Oregon Division of State Lands wetlands delineation procedures;
- 5. Topography shown by contour lines of 2 or 1 foot intervals for slopes less than 15% and by 10 foot intervals for slopes 15% or greater;
- 6. Existing improvements such as structures or buildings, utility lines, fences, driveways, parking areas, etc.
- 7. Extent of the required Vegetated Corridor required by Table 17.49.110.
- B. Within the NROD area of the subject property:
 - 1. The distribution outline of shrubs and ground covers, with a list of most abundant species;
 - 2. Trees 6 inches or greater in diameter, identified by species. When trees are located in clusters they may be described by the approximate number of trees, the diameter range, and a listing of dominant species;
 - 3. An outline of the disturbance area that identifies the vegetation that will be removed. All trees to be removed with a diameter of 6 inches or greater shall be specifically identified as to number, trunk diameters and species;
 - 4. If grading will occur within the NROD, a grading plan showing the proposed alteration of the ground at 2 foot vertical contours in areas of slopes less than 15% and at 5 foot vertical contours of slopes 15% or greater.
- *C. A construction management plan including:*
 - 1. Location of site access and egress that construction equipment will use;
 - 2. Equipment and material staging and stockpile areas;
 - 3. Erosion control measures that conform to City of Oregon City erosion control standards;
 - 4. Measures to protect trees and other vegetation located outside the disturbance area.
- D. A mitigation site plan demonstrating compliance with Section 17.49.180 or 17.49.190, including: 1. Dams, weirs or other in-water features;
 - 2. Distribution, species composition, and percent cover of ground covers to be planted or seeded;
 - *3. Distribution, species composition, size, and spacing of shrubs to be planted;*
 - 4. Location, species and size of each tree to be planted;
 - 5. Stormwater management features, including retention, infiltration, detention, discharges and outfalls;
 - 6. Water bodies or wetlands to be created, including depth;
 - 7. Water sources to be used for irrigation of plantings or for a water source for a proposed wetland.

Finding: Complies as proposed. The applicant's submittal materials were evaluated during the completeness review.

17.49.230 Mitigation Plan Report

A mitigation plan report that accompanies the above mitigation site plan is also required. The report shall be

prepared by an environmental professional with experience and academic credentials in one or more natural resource areas such as ecology, wildlife biology, botany, hydrology or forestry. The mitigation plan report shall, at a minimum, discuss:

- *A. Written responses to each applicable Mitigation Standard* 17.49.180 or 17.49.190 indicating how the proposed development complies with the mitigation standards;
- B. The resources and functional values to be restored, created, or enhanced through the mitigation plan;
- *C.* Documentation of coordination with appropriate local, regional, state and federal regulatory/resource agencies such as the Oregon Department of State Lands (DSL) and the United States Army Corps of Engineers (USACE);
- D. Construction timetables;
- E. Monitoring and Maintenance practices pursuant to Section 17.49.230 (F) and a contingency plan for undertaking remedial actions that might be needed to correct unsuccessful mitigation actions during the first 5 years of the mitigation area establishment.

Finding: Complies as proposed. The applicant's submittal materials were evaluated during the completeness review.

17.49.240 Density Transfer

The NROD allocates urban densities to the non-NROD portions of properties located partially within the NROD, generally resulting in a substantial increase in net development potential.

For lots of record that are located within the NROD, additional density transfer credits are allowed, subject to the following provisions:

Density may be transferred from the NROD to non-NROD portions of the same property or of contiguous properties within the same development site;

- A. The residential transfer credit shall be as follows: for new residential partitions and subdivisions, 1/3 of the area of the NROD tract or conservation easement area may be added to the net developable area outside of the tract or conservation easement area within the boundary of the development site in order to calculate the allowable number of lots.
- B. Permitted Modifications to Residential Dimensional Standards. In order to allow for a transfer of density pursuant to (B) above, the dimensional standards of the base zone may be modified in order minimize disturbance to the NROD. The permissible reductions are specified in Tables 17.49.240(C-D).
- C. The applicant shall demonstrate that the minimum lot size of the underlying zone has been met. The area of the NROD in B above that is used to transfer density may be included in the calculation of the average minimum lot size.
- D. The applicant may choose to make the adjustments over as many lots as required. For example, the lot reduction could be spread across all the remaining lots in the proposed subdivision or partition or could be applied to only those needed to incorporate the areas of the NROD Tract.

Table 17.49.240 A

Min. Lot Size (%)	Min. Lot	Min. Lot
Size (%)	141: 144	
	Width	Depth
5,000 sq.		
feet	50′	65′
4,000 sq.		
feet		60'
3,500 sq.		
feet	35′	55'
3,000 sq.		
feet	30′	50'
1,800 sq.		
feet	20'	45'
	5,000 sq. feet 4,000 sq. feet 3,500 sq. feet 3,000 sq. feet 1,800 sq.	5,000 sq. 50' feet 50' 4,000 sq. 45' 3,500 sq. 50' feet 35' 3,000 sq. 30' feet 30' 1,800 sq. 50'

Table 17.49.240 B

Reduced Dimensional Standards for Detached Single-Family Residential Units

Size of Reduced Lot	Front Yard	Rear Yard Setback	Side yard Setback	Corner Side	Lot Coverage
	Setback				

8,000-9,999 square feet	15 feet	20 feet	7/9 feet	15 feet	40%
6,000-7,999 square feet	10 feet	15 feet	5/7 feet	15 feet	40%
4,000-5,999 square feet	10 feet	15 feet	5/5 feet	10 feet	40%
1,800-3,999 square feet	5 feet	15 feet	5/5 feet	10 feet	55%

Table 17.49.240 C

Reduced Dimensional Standards for Single-Family Attached or Two-Family Residential Units	
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Front Yard	Rear Yard	Side yard	Corner Side	Lot Coverage
Setback	Setback	Setback		
10 feet	15 feet	5/0* feet	10 feet	40%
5 feet	15 feet	5/0* feet	10 feet	55%
	10 feet	10 feet 15 feet	SetbackSetbackSetback10 feet15 feet5/0* feet	SetbackSetback10 feet15 feet5/0* feet10 feet

*0 foot setback is only allowed on single-family attached units

E. Transfers for properties zoned Commercial, Institutional, Industrial or Multi-Family uses the transfer credit is 10,000 sq. ft. per acre of land within the NROD;

- G. The owner of the transferring property shall execute a covenant with the City that records the transfer of density. The covenant shall be found to meet the requirements of this section and be recorded before building permits are issued; and
- H. All other applicable development standards, including setbacks, building heights, and maximum lot coverage shall continue to apply when a density transfer occurs.

Finding: Not applicable. The proposal does not include a density transfer.

17.49.250 Verification of NROD Boundary

The NROD boundary may have to be verified occasionally to determine the true location of a resource and its functional values on a site. This may through a site specific environmental survey or, in those cases where existing information demonstrates that the NROD significance rating does not apply to a site-specific area. Applications for development on a site located in the NROD area may request a determination that the subject site is not in an NROD area and therefore is not subject to the standards of Section 17.49.100. Verifications shall be processed as either a Type I or Type II process.

Finding: Not applicable. The development proposal does not include a Verification of the NROD boundary.

17.49.260. Type II Verification

Finding: Not applicable. The development proposal does not include a Type II Verification request.

CHAPTER 17.12 - "R-6" SINGLE-FAMILY DWELLING DISTRICT

17.12.020 - Permitted uses.

Permitted uses in the R-6 district are:

A. Single-family detached residential units;

B. Parks, playgrounds, playfields and community or neighborhood centers;

C. Home occupations;

D. Farms, commercial or truck gardening and horticultural nurseries on a lot not less than twenty thousand square feet in area (retail sales of materials grown on-site is permitted);

E. Temporary real estate offices in model homes located on and limited to sales of real estate on a single piece of platted property upon which new residential buildings are being constructed;

F. Accessory uses, buildings and dwellings;

G. Family day care provider, subject to the provisions of Section 17.54.050;

H. Residential home per ORS 443.400;

I. Cottage housing;

J. Transportation facilities.

Finding: Complies as proposed. The applicant has proposed a single family detached home.

F. The area of land contained in the NROD area may be excluded from the calculations for determining compliance with minimum density requirements of the land division code.

17.12.040.A. Minimum lot area, six thousand square feet;

17.58.020 - Lawful nonconforming lots of record. Lots or parcels lawfully created but which do not now conform to the legal lot standards in this land use code may be occupied by uses otherwise permitted if those uses comply with all other provisions of this land use code.

Finding: Complies as proposed. The applicant has proposed a single family home on a lot of record which is 5000 square feet. The lot of record was lawfully created as part of the Clackamas Heights Subdivision and is zoned R-6. Compliance with other applicable code sections has been determined through the findings in this staff report.

17.12.040.B. Minimum lot width, fifty feet; **Finding: Complies as proposed.** The lot width is 50 feet.

17.12.040.C. Minimum lot depth, seventy feet; **Finding: Complies as proposed.** The lot depth is 100 feet.

17.12.040.D. Maximum building height: two and one-half stories, not to exceed thirty-five feet. **Finding:** This will be determined at the time of building permit application.

17.12.040.E

1. Front yard: ten feet minimum depth. Finding: Complies as proposed. The applicant has proposed a 20' front yard setback.

2. Front porch, five feet minimum setback, **Finding: Complies as proposed.** The applicant has proposed a 20' front porch setback.

3. Attached and detached garage, twenty feet minimum setback from the public right-of-way where access is taken, except for alleys. Detached garages on an alley shall be setback a minimum of five feet in residential areas. **Finding: Complies as proposed.** The applicant has proposed a 20' garage setback.

4. Interior side yard, nine feet minimum setback for at least one side yard; five feet minimum setback for the other side yard,

Finding: Complies as proposed. The applicant has proposed a 5' side setback on the south lot line and approximately 24' setback on the north side.

5. Corner side yard, fifteen feet minimum setback, Finding: Not applicable. This is not a corner lot.

6. Rear yard, twenty-foot minimum setback Finding: Complies as proposed. The applicant has proposed a 36-foot rear setback.

7. Rear porch, fifteen-foot minimum setback.

Finding: Not applicable. The applicant has not proposed a separate rear porch setback.

17.12.040.F. Garage standards: See Chapter 17.21—Residential Design Standards. **Finding:** This will be determined at the time of building permit application.

17.12.040.G. Maximum lot coverage: The footprint of all structures two hundred square feet or greater shall cover a maximum of forty percent of the lot area.

Finding: Complies as proposed. The applicant has proposed lot coverage in accordance with the NROD requirements, and complies with the standard at approximately 30% of the lot.

CHAPTER 17.50 - ADMINISTRATION AND PROCEDURES

17.50.030 Summary of the City's Decision-Making Processes.

Finding: Complies as Proposed. The proposed application is being reviewed pursuant to the Type III process. Notice was posted onsite, online and mailed to property owners within 300 feet of the proposed development site and posted in the newspaper.

17.50.050 Preapplication Conference

A. Preapplication Conference. Prior to submitting an application for any form of permit, the applicant shall schedule and attend a preapplication conference with City staff to discuss the proposal. To schedule a preapplication conference, the applicant shall contact the Planning Division, submit the required materials, and pay the appropriate conference fee. At a minimum, an applicant should submit a short narrative describing the proposal and a proposed site plan, drawn to a scale acceptable to the City, which identifies the proposed land uses, traffic circulation, and public rights-of-way and all other required plans. The purpose of the preapplication conference is to provide an opportunity for staff to provide the applicant with information on the likely impacts, limitations, requirements, approval standards, fees and other information that may affect the proposal. The Planning Division shall provide the applicant(s) with the identity and contact persons for all affected neighborhood associations as well as a written summary of the preapplication conference. Notwithstanding any representations by City staff at a preapplication conference, staff is not authorized to waive any requirements of this code, and any omission or failure by staff to recite to an applicant all relevant applicable land use requirements shall not constitute a waiver by the City of any standard or requirement.

B.A preapplication conference shall be valid for a period of six months from the date it is held. If no application is filed within six months of the conference or meeting, the applicant must schedule and attend another conference before the city will accept a permit application. The community development director may waive the preapplication requirement if, in the Director's opinion, the development does not warrant this step. In no case shall a preapplication conference be valid for more than one year.

Finding: Complies as Proposed. The applicant held a pre-application conference (file PA 15-36) on November 18, 2015. The land use application was submitted within 6 months of the pre-application conference on February 2, 2016. The application was deemed incomplete on February 26, 2016 and after the submittal of additional information the application was deemed complete on March 31st, 2016.

17.50.055 Neighborhood Association Meeting

Finding: Not applicable. The application is not listed as one of the applications requiring a Neighborhood Association Meeting and the applicant did not attend one.

17.50.060 Application Requirements.

Finding: Complies as Proposed. All application materials required are submitted with this narrative. The applicant has provided reduced size sets of plans and electronic copies to accompany the submittal items.

17.50.070 Completeness Review and 120-day Rule.

Finding: Complies as Proposed. The land use application was submitted within 6 months of the pre-application conference on February 2, 2016. The application was deemed incomplete on February 26, 2016 and after the submittal of additional information the application was deemed complete on March 31st, 2016. The 120-day Decision Deadline is July 29, 2016.

17.50.080 Complete Application--Required Information. Finding: Complies as Proposed. See above.

17.50.090 Public Notices.

Finding: Complies as Proposed. Staff provided public notice within 300' of the site via mail, the site was posted with multiple Land Use Notices, posted on the Oregon City website and in a general circulation newspaper. Staff provided email transmittal or the application and notice to affected agencies, the Natural Resource Committee and to all Neighborhood Associations requesting comment.

17.50.100 Notice Posting Requirements.

Finding: Complies as Proposed. The site was posted with a sign for the minimum length requirement.

III. CONCLUSION AND RECOMMENDATION

Based on the analysis and findings as described above, staff recommends that the proposed Natural Resource Overlay District application for construct of a single-family residence on a highly constrained lot of record within the Natural Resources Overlay District, located at 16348 Frederick St, Oregon City, OR 97045, and identified as Clackamas County APN 2-2E-28BC-04001, can meet the requirements as described in the Oregon City Municipal Code by complying with the Condition of Approval provided in this report.

Therefore, the Community Development Director recommends that files NR 16-01 be approved as submitted with conditions, based upon the findings and exhibits contained in this staff report.

EXHIBITS

- 1. Application
- 2. Public Notices
- 3. Natural Resources Committee Presentation of April 13, 2016
- 4. 1999 Local Wetland Inventory Excerpts



Community Development – Planning

221 Molalla Ave. Suite 200 | Oregon City OR 97045 Ph (503) 722-3789 | Fax (503) 722-3880

LAND USE APPLICATION FORM

Type I (OCMC 17.50.030.A) Compatibility Review Lot Line Adjustment Non-Conforming Use Review Natural Resource (NROD) Verification	Type II (OCMC 17.50.030.B)ExtensionDetailed Development ReviewGeotechnical HazardsMinor Partition (<4 lots)Minor Site Plan & Design ReviewNon-Conforming Use ReviewSite Plan and Design ReviewSubdivision (4+ lots)Minor VarianceNatural Resource (NROD) Review	Type III / IV (OCMC 17.50.030 Annexation Code Interpretation / Simil Concept Development Plan Conditional Use Comprehensive Plan Amen Detailed Development Plan Historic Review Municipal Code Amendmen Variance Zone Change	ar Use dment (Text/Map) n nt
File Number(s): <u>NR-</u>	16-001	> possible Type I	
Proposed Land Use or Activity: _	NROD New sing	le family home	
Project Name: Lot 4	Number	of Lots Proposed (If Applicable)):/
Physical Address of Site: 2 - 2	E-28BC-04001		
	ot Number(s): <u>2-2E-28B</u>	C-04001	
Applicant(s): Applicant(s) Signature:	mp		
Applicant(s) Name Printed:	ark Shaw	Date:/1_	
Mailing Address: POBO	x 489 Oregon Cit	4, OR 97045	
Phone: 503-313-352	5_Fax: <u>503-655-5845</u>	Email: mark@greatw.	estern vestoration.co
Property Owner(s): Property Owner(s) Signature:	Same as Applican	t	
Property Owner(s) Name Printed	:	Date:	
Mailing Address:			-
Phone:	Fax:	_Email:	
Representative(s): Representative(s) Signature:			
Representative (s) Name Printed:	2	Date:	<u> </u>
Mailing Address:			
	Fax:		
All signatures represented must	have the full legal capacity and hereby author erewith are correct and indicate the parties wil	ize the filing of this application and ce	
-	www.orcity.org/planning	U I	
			<u>4</u> 7



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Natural Resource Overlay Checklist



2.

Signed Land Use Application Form

Narrative

A complete and detailed narrative description of the proposed development and existing site conditions, existing buildings, public facilities and services, presence of natural features

3.

Code Criteria

A narrative explaining all aspects of the proposal in detail and addressing each of the criteria listed in Chapter 17.49, 17.50 and any other applicable section of the Oregon City Municipal Code.

Site Plan Drawings

- The site plan must be drawn at a scale of no less than one inch equals twenty feet
- The site plan must show the location of the proposed development and the lot lines of the property on which development is proposed
- The site plan must show the location of the protected natural feature. If the protected feature is a wetland, the delineation must be made by a qualified wetlands specialist pursuant to the 1987 Corps of Engineers Delineation Manual. For all other protected water features, the location must be established by a registered professional engineer or surveyor licensed by the state of Oregon.
- The site plan must show the location of the natural resource overlay.
- If the proposed development is closer than two hundred feet to the protected water feature, the site plan must include contour intervals of no greater than five feet
- If the vegetated corridor is fifteen feet, the site plan must show the protected water feature's drainage area, including all tributaries.

Architectural Drawings 5.

Including building elevations and envelopes, if architectural work is proposed.

- Pre-Application Conference Summary Sheet meeting notes
- Additional Information or Reports (If Required in Pre-Application Conference) N 7.
- Sheet Summary of the Meeting with the Applicable Neighborhood Association N/A per Kelly Reid 8. NA
- A Current Preliminary Title Report for the Subject Property(ies) 9.
- Mailing Labels for Owners Within 300 Feet of the Subject Site or \$15 for City-provided labels 10. The names and addresses of property owners within 300 feet of the site indicated on the most recent property tax rolls. \$15
- Two (2) copies of all information, reports, and drawings (full-sized and 8.5" by 11") I hard copy per Lawra 11.

Electronic Version of All Application Materials 12.

All Required Application Fees 13.

Incomplete Applications will not be processed



Narrative

To whom it may concern,

I am applying to build a new house on reestablished Lot 4 of Clackamas Heights Supplemental. Lot 4 is directly to the West of 16341 Hiram Avenue. Lot 4 has frontage on an unimproved section of Frederick Street. Lot 4 is also entirely covered by a Natural resource overlay. I have included proposed drawings, along with an NROD report, provided by Turnstone Environmental Consultants. They were one of the consulting firms on a list provided by the Planning Department.

Thank you for your time.

Sincerely,

Mark Shaw 503-313-3525 mark@greatwesternrestoration.com



Prepared for: Mark Shaw 16341 Hiram Avenue Oregon City, OR 97045

Prepared by: Turnstone Environmental Consultants, Inc. 18000 NW Lucy Reeder Road Portland, OR 97231

January 2016 (Revised March 2016)



NROD Report

for the

Shaw Property

Oregon City, Oregon

PREFACE

This report was originally submitted to the Oregon City Planning Department in December of 2015. Associate City Planner, Pete Walter, informed the applicant and consultant that the original format would not suffice and that a new report should be submitted that outlines Title 17.49 and addresses each section point by point. We hope that this new, revised report meets the planning department's requirements.

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NROD Report Shaw-Hiram Avenue Single-Family Home
SECTION 1. SITE LOCATION

Turnstone Environmental Consultants, Inc. has prepared this report for the proposed development of a single-family home at 16341 Hiram Avenue, Oregon City 97045 (*Figure 1*). The 0.11-acre project area is located on tax lot 2-2E-28BC-04000 (*Figure 2*). The proposed development would occur on the existing lot of record number 4. The centroid coordinates for the project area are 45.3695/-122.5784. The project area is located within Public Land Survey System ("PLSS") Township 2S, Range 2E, Section 28. The property is located within the Rock Creek-Clackamas Watershed (HUC6: 170900110607). The project area is within the Natural Resource Overlay District ("NROD").

SECTION 2. DESCRIPTION OF PROPOSED DEVELOPMENT

The applicant proposes to construct a single-family residence. The house would occupy 1,032 sq ft and the driveway, sidewalk, and rear patio would occupy 468 sq ft. The total impervious surface and encroachment into the Vegetated Corridor created by the proposed development would be 1,500 sq ft.

SECTION 3. DESCRIPTION OF EXISTING CONDITIONS

Existing Buildings and Public Facilities

There was an existing shed on the western edge of Lot 4 that has recently been demolished. The shed dimensions were approximately 15' x 25'. There was another small shed on the northwest corner of Lot 9 that was also recently demolished. The dimensions were approximately 10' x 10'. There is an existing residence on the eastern portion of Lot 9. There is an existing residence to the south on tax lot 4100. The city right-of-way for Frederick Street runs along the western boundary of Lot 4.

The OC Webmaps application illustrates utilities in the vicinity of Lot 4. Water utilities are shown running north up Frederick Street and stopping just shy of the subject property. Sewer utilities are depicted on the surrounding Hiram Avenue, Gain Street, Front Avenue, and Clear Street but not on Frederick Street. Stormwater utilities are depicted on Hiram Avenue and Front Avenue but not on Frederick Street.

Natural Features

Turnstone conducted a wetland delineation on Lot 4 on Friday, December 4, 2015 (*Figure 3*). Turnstone staff utilized the *Corps of Engineers Wetlands Delineation Manual* (USACE, 1987) along with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*: *Western Mountains, Valleys, and Coast Region, Version 2* (USACE, 2010) to conduct the wetland delineation. The Ordinary High Water Line ("OHWL") determination was made by locating and mapping the upland limit of physical and biological characteristics outlined in Army Corps of Engineers *Regulatory Guidance Letter 05-05* (USACE, 2005). Delineation data forms are provided in Appendix B. Photos are provided in Appendix C.

One freshwater perennial stream was identified within the project area. Wetland is present within the OHWL of the stream but the Interagency document *Wetland Delineation Report Guidance* (DSL/USACE/EPA, 2005) states that "In most instances, incidental amounts of wetland entirely within OHW do not need to be separately delineated." Fergusson Creek flows from east to west along the northern



property boundary. This reach of Fergusson Creek is classified as Riverine Upper Perennial using *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al, 1979). According to Oregon City Municipal Code ("OCMP") Table 17.49.110, a perennial stream has a 50-foot Vegetated Corridor.

Local Wetland Inventory

The reach of Fergusson Creek within the project area appears on the *Oregon City Local Wetland Inventory and Riparian Assessment* (Shapiro and Associates, Inc., 1999) as wetland PP3D. This wetland is not listed as locally-significant in Table 5 of the inventory report.

Trees

There are six trees within the project area. There are three apple (*Malus domestica*), two persimmon (*Diospyros* sp.), and one ornamental cherry (*Prunus* sp.).

SECTION 4. NATURAL RESOURCE OVERLAY DISTRICT STANDARDS ASSESSMENT

Chapter 17.49 - NATURAL RESOURCE OVERLAY DISTRICT <u>17.49.[0]40 - NROD permit.</u>

An NROD permit is required for those uses regulated under Section 17.49.90, Uses Allowed under Prescribed Conditions. An NROD permit shall be processed under the Type II development permit procedure, unless an adjustment of standards pursuant to Section 17.49.200 is requested or the application is being processed in conjunction with a concurrent application or action requiring a Type III or Type IV development permit. Applications for development on properties affected by the NROD shall delineate or verify the exact location of the NROD as part of a Type I or II development review process unless exempted pursuant to section 17.40.080. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

An adjustment from standards is required to permit the project and has been advised by the Oregon City Planning Department ("OCPD"). The entire property is constrained by the NROD.

17.49.[0]50 - Emergencies.

The provisions of this ordinance do not apply to work necessary to protect, repair, maintain, or replace existing structures, utility facilities, roadways, driveways, accessory uses and exterior improvements in response to emergencies. After the emergency has passed, any disturbed native vegetation areas shall be replanted with similar vegetation found in the Oregon City Native Plant List pursuant to the mitigation standards of Section 17.49.180. For purposes of this section emergency shall mean any man-made or natural event or circumstance causing or threatening loss of life, injury to person or property, and includes, but is not limited to fire, explosion, flood, severe weather, drought, earthquake, volcanic activity, spills or releases of oil or hazardous material, contamination, utility or transportation disruptions, and disease. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Not applicable. This application is not related to an emergency.



17.49.[0]60 - Consistency and relationship to other regulations.

A. Where the provisions of the NROD are less restrictive or conflict with comparable provisions of the Oregon City Municipal Code, other City requirements, regional, state or federal law, the provisions that provides the greater protection of the resource shall govern.

B. Compliance with Federal and State Requirements.

a. If the proposed development requires the approval of any other governmental agency, such as the Division of State Lands or the U.S. Army Corps of Engineers, the applicant shall make application for such approval prior to or simultaneously with the submittal of its development application to the City. The planning division shall coordinate City approvals with those of other agencies to the extent necessary and feasible. Any permit issued by the City pursuant to this chapter shall not become valid until other agency approvals have been obtained or those agencies indicate that such approvals are not required.

b. The requirements of this chapter apply only to areas within the NROD and to locally significant wetlands that may be added to the boundary during the course of development review pursuant to Section 17.49.035. If, in the course of a development review, evidence suggests that a property outside the NROD may contain a wetland or other protected water resource, the provisions of this chapter shall not be applied to that development review. However, the omission shall not excuse the applicant from satisfying any state and federal wetland requirements which are otherwise applicable. Those requirements apply in addition to, and apart from the requirements of the City's comprehensive plan and this code.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The Oregon Department of State Lands and the United States Army Corps of Engineers would take jurisdiction over Fergusson Creek and its associated wetland. Permits and approvals from these agencies will not be necessary because no Removal-Fill activities are proposed within the stream or wetland. A wetland delineation report will not be necessary because the resources are being avoided and the total amount of removal-fill in uplands is less than 50 cubic yards. The agencies will be notified of the proposal through a Land Use Compatibility Statement. Turnstone contacted DSL on December 16, 2015 to verify this and the e-mail record can be provided if necessary.

Prohibited, Exempted and Regulated Uses

17.49.[0]70 - Prohibited uses.

The following development and activities are not allowed within the NROD:

A. Any new gardens, lawns, structures, development, other than those allowed outright (exempted) by the NROD or that is part of a regulated use that is approved under prescribed conditions. Note: Gardens and lawns within the NROD that existed prior to the time the overlay district was applied to a subject property are allowed to continue but cannot expand further into the overlay district.

B. New lots that would have their buildable areas for new development within the NROD are prohibited. C. The dumping of materials of any kind is prohibited except for placement of fill as provided in subsection-D below. The outside storage of materials of any kind is prohibited unless they existed before the overlay district was applied to a subject property. Uncontained areas of hazardous materials as defined by the Oregon Department of Environmental Quality (ORS 466.005) are also prohibited.



D. Grading, the placement of fill in amounts greater than ten cubic yards, or any other activity that results in the removal of more than ten percent of the existing native vegetation on any lot within the NROD is prohibited, unless part of an approved development activity.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

No prohibited activities are proposed and none would occur unless part of an approved development activity.

17.49.[0]80 - Uses allowed outright (exempted).

The following uses are allowed within the NROD and do not require the issuance of an NROD permit:

A. Stream, wetland, riparian, and upland restoration or enhancement projects as authorized by the city.

B. Farming practices as defined in ORS 215.203 and farm uses, excluding buildings and structures, as defined in ORS 215.203.

C. Utility service using a single utility pole or where no more than one hundred square feet of ground surface is disturbed outside of the top-of-bank of water bodies and where the disturbed area is restored to the pre-construction conditions.

D. Boundary and topographic surveys leaving no cut scars greater than three inches in diameter on live parts of native plants listed in the Oregon City Native Plant List.

E. Soil tests, borings, test pits, monitor well installations, and other minor excavations necessary for geotechnical, geological or environmental investigation, provided that disturbed areas are restored to pre-existing conditions as approved by the community development director.

F. Trails meeting all of the following:

- 1. Construction shall take place between May 1 and October 30 with hand held equipment;
- 2. Widths shall not exceed forty-eight inches and trail grade shall not exceed twenty percent;

3. Construction shall leave no scars greater than three inches in diameter on live parts of native plants;

4. Located no closer than twenty-five feet to a wetland or the top of banks of a perennial stream or ten feet of an intermittent stream;

5. No impervious surfaces; and

6. No native trees greater than one-inch in diameter may be removed or cut, unless replaced with an equal number of native trees of at least two-inch diameter and planted within ten feet of the trail.

G. Land divisions provided they meet the following standards, and indicate the following on the final plat:

1. Lots shall have their building sites (or buildable areas) entirely located at least five feet from the NROD boundary shown on the city's adopted NROD map. For the purpose of this subparagraph, "building site" means an area of at least three thousand five hundred square feet with minimum dimensions of forty feet wide by forty feet deep;



2. All public and private utilities (including water lines, sewer lines or drain fields, and stormwater disposal facilities) are located outside the NROD;

3. Streets, driveways and parking areas where all pavement shall be located at least ten feet from the NROD; and

4. The NROD portions of all lots are protected by:

a. A conservation easement; or

b. A lot or tract created and dedicated solely for unimproved open space or conservation purposes.

H. Site Plan and Design Review applications where all new construction is located outside of the NROD boundary shown on the city's adopted NROD map, and the NROD area is protected by a conservation easement approved in form by the city.

I. Routine repair and maintenance of existing structures, roadways, driveways and utilities.

J. Replacement, additions, alterations and rehabilitation of existing structures, roadways, utilities, etc., where the ground level impervious surface area is not increased.

K. Measures mandated by the City of Oregon City to remove or abate nuisances or hazardous conditions.

L. Planting of native vegetation and the removal of non-native, invasive vegetation (as identified on the Oregon City Native Plant List), and removal of refuse and fill, provided that:

1. All work is done using hand-held equipment;

- 2. No existing native vegetation is disturbed or removed; and
- 3. All work occurs outside of wetlands and the top-of-bank of streams.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Allowed and exempt activities may occur on the subject property.

17.49.[0]90 - Uses allowed under prescribed conditions.

The following uses within the NROD are subject to the applicable standards listed in Sections 17.49.100 through 17.49.190 pursuant to a Type II process:

A. Alteration to existing structures within the NROD when not exempted by Section 17.49.080, subject to Section 17.49.130.

B. A residence on a highly constrained vacant lot of record that has less than three thousand square feet of buildable area, with minimum dimensions of fifty feet by fifty feet, remaining outside the NROD portion of the property, subject to the maximum disturbance allowance prescribed in subsection 17.49.120.A.

C. A land division that would create a new lot for an existing residence currently within the NROD, subject to Section 17.49.160.

D. Land divisions when not exempted by Section 17.49.080, subject to the applicable standards of Section 17.49.160.

E. Trails/pedestrian paths when not exempted by Section 17.49.080, subject to Section 17.49.170 (for trails) or Section 17.49.150 (for paved pedestrian paths).

F. New roadways, bridges/creek crossings, utilities or alterations to such facilities when not exempted by Section 17.49.080.



G. Roads, bridges/creek crossings Subject to Section 17.49.150.

H. Utility lines subject to Section 17.49.140.

I. Stormwater detention or pre-treatment facilities subject to Section 17.49.155.

J. Institutional, industrial or commercial development on a vacant lot of record situated in an area designated for such use that has more than seventy-five percent of its area covered by the NROD, subject to subsection 17.49.120B.

K. City, county and state capital improvement projects, including sanitary sewer, water and storm water facilities, water stations, and parks and recreation projects.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The proposed development does not qualify for the Type II process and will undergo the Type III process as per OCPD guidance and regulations.

Development Standards

17.49.100 - General development standards.

The following standards apply to all Uses Allowed under Prescribed Conditions within the NROD with the exception of rights of ways (subject to Section 17.49.150), trails (subject to Section 17.49.170), utility lines (subject to Section 17.49.140), land divisions (subject to Section 17.49.160), and mitigation projects (subject to Section 17.49.180 or 17.49.190):

A. Native trees may be removed only if they occur within ten feet of any proposed structures or within five feet of new driveways or if deemed not wind-safe by a certified arborist. Trees listed on the Oregon City Nuisance Plant List or Prohibited Plant List are exempt from this standard and may be removed. A protective covenant shall be required for any native trees that remain;

B. The community development director may allow the landscaping requirements of the base zone, other than landscaping required for parking lots, to be met by preserving, restoring and permanently protecting habitat on development sites in the Natural Resource Overlay District.

C. All vegetation planted in the NROD shall be native and listed on the Oregon City Native Plant List;

D. Grading is subject to installation of erosion control measures required by the City of Oregon;

E. The minimum front, street, or garage setbacks of the base zone may be reduced to any distance between the base zone minimum and zero in order to minimize the disturbance area within the NROD portion of the lot;

F. Any maximum required setback in any zone, such as for multi-family, commercial or institutional development, may be increased to any distance between the maximum and the distance necessary to minimize the disturbance area within the NROD portion of the lot;

G. Fences are allowed only within the disturbance area;

H. Incandescent lights exceeding two hundred watts (or other light types exceeding the brightness of a two hundred watt incandescent light) shall be placed or shielded so that they do not shine directly into resource areas;

I. If development will occur within the one hundred-year floodplain, the FEMA floodplain standards of Chapter 17.42 shall be met; and



J. Mitigation of impacts to the regulated buffer is required, subject to Section 17.49.180 or 17.49.190. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The applicant's proposal shall meet the standards presented in this section.

A. There are no native trees on the subject property and no native trees will be removed (*Figure 6*).

B. Habitat on the development site in the NROD will be restored and permanently protected (Section 5).

C. All vegetation planted in the NROD will be native and listed on the Oregon City Native Plant List (*Section 5*).

D. Temporary Erosion and Sediment Control/Best Management Practices will be implemented (Figure 9).

E. The house will comply with all current R-6 setback requirements (Figure 7).

F. The house will be set back 20 feet from Frederick Street (Figure 7).

G. There will be no new fences constructed with the proposed plan.

H. Incandescent lights exceeding two hundred watts (or other light types exceeding the brightness of a two hundred watt incandescent light) will be placed or shielded so that they do not shine directly into resource areas.

I. The development is not within a 100-year floodplain.

J. Mitigation of impacts to the regulated buffer are proposed in Section 5 of this document.

17.49.110 - Width of vegetated corridor.

A. Calculation of Vegetated Corridor Width within City Limits. The NROD consists of a vegetated corridor measured from the top of bank or edge of a protected habitat or water feature. The minimum required width is the amount of buffer required on each side of a stream, or on all sides of a feature if non-linear. The width of the vegetated corridor necessary to adequately protect the habitat or water feature is specified in Table 17.49.110.



Table 17.49.110				
Protected Water Feature Type (see definitions)	Slope Adjacent to Protected Water Feature	Starting Point for Measurements from Water Feature	Width of Vegetated Corridor (see Note 1)	
Anadromous fish- bearing streams	Any slope	• Edge of bankfull flow	200 feet	
Intermittent streams with slopes less than 25 percent and which drain less than 100 acres	< 25 percent	• Edge of bankfull flow	15 feet	
All other protected water features	< 25 percent	•Edge of bankfull flow • Delineated edge of Title 3 wetland	50 feet	
	≥25 percent for 150 feet or more (see Note 2)		200 feet	
	≥25 percent for less than 150 feet (see Note 2)		Distance from starting point of measurement to top of ravine (break in ≥25 percent slope) (See Note 3) plus 50 feet.	

Notes: 1. Real

1. Required width (measured horizontally) of vegetated corridor unless reduced pursuant to the provisions of Section 17.49.050(I).

2. Vegetated corridors in excess of fifty feet apply on steep slopes only in the uphill direction from the protected water feature.

3. Where the protected water feature is confined by a ravine or gully, the top of the ravine is the break in the \geq 25 percent slope.

B. Habitat Areas within City Parks. For habitat and water features identified by Metro as regionally significant which are located within city parks, the NROD Boundary shall correspond to the Metro Regionally Significant Habitat Map.

C. Habitat Areas outside city limit/within UGB. For habitat and water features identified by Metro as regionally significant which are located outside of the city limits as of the date of adoption of this ordinance, the minimum corridor width from any non-anadramous fish bearing stream or wetland shall be fifty feet. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)



Comment:

The Vegetated Corridor is 50 feet measured from the edge of bankfull flow of Fergusson Creek. The entire property is within the 50-foot Vegetated Corridor.

17.49.120 - Maximum disturbance allowance for highly constrained lots of record.

In addition to the General Development Standards of Section 17.49.100, the following standards apply to a vacant lot of record that is highly constrained by the NROD, per subsections 17.49.90(B) and 17.49.90(F): A. Standard for Residential Development. In the NROD where the underlying zone district is zoned Residential (R-10, R-8, R-6, R-5, R-3.5): the maximum disturbance area allowed for new residential development within the NROD area of the lot is three thousand square feet.

B. Standard for all developments not located in R-10, R-8, R-6, R-5, and R-3.5. For all other underlying zone districts, including R-2 multifamily, the maximum disturbance area allowed for a vacant, constrained lot of record development within the NROD is that square footage which when added to the square footage of the lot lying outside the NROD portion equals twenty-five percent of the total lot area.

[1] Lots that are entirely covered by the NROD will be allowed to develop twenty-five percent of their area. [1] Note: This can be determined by (1) Multiplying the total square footage of the lot by .25; (2) Subtracting from that amount the square footage of the lot that is located outside the NROD; (3) The result is the maximum square footage of disturbance to be allowed in the NROD portion of the lot. If the result is < or = to 0, no disturbance is permitted and the building shall be located outside of the boundary.

C. In all areas of Oregon City, the disturbance area of a vacant, highly constrained lot of record within the NROD shall be set back at least fifty feet from the top of bank on Abernethy Creek, Newell Creek, or Livesay Creek or twenty-five feet from the top of bank of any tributary of the aforementioned Creeks, other water body, or from the delineated edge of a wetland located within the NROD area.

D. If the highly constrained lot of record cannot comply with the above standards, a maximum one thousand five hundred square foot disturbance within the NROD area may be allowed.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The proposed project meets the standards presented in Subsection D above (*Figure 7*). "...a maximum one thousand five hundred square foot disturbance within the NROD area may be allowed."

17.49.130 - Existing development standards.

In addition to the General Development Standards of Section 17.49.100, the following standards apply to alterations and additions to existing development within the NROD, except for trails, rights of way, utility lines, land divisions and mitigation projects. Replacement, additions, alterations and rehabilitation of existing structures, roadways, utilities, etc., where the ground level impervious surface area is not increased are exempt from review pursuant to Section 17.49.080J. As of June 1, 2010, applicants for alterations and additions to existing development that are not exempt pursuant to Section 17.49.080J. shall submit a Type II or Type III application pursuant to this section. The application shall include a site plan which delineates a permanent disturbance area that includes all existing buildings, parking and loading areas, paved or graveled areas, patios and decks. The same delineated disturbance area shall be shown on every subsequent proposal for alterations and additions meeting this standard.

A. The following alterations and additions to existing development are permitted subject to the following standards.



1. Alterations or additions that cumulatively total up to a maximum of five hundred square feet of additional disturbance area after June 1, 2010 shall be processed as a Type II permit pursuant to this chapter. The new disturbance area shall not encroach closer than one-half of the distance of the regulated NROD buffer.

2. Alterations or additions that cumulatively exceed five hundred square feet of additional disturbance area or which propose encroachment closer than one-half of the distance of the regulated NROD buffer after June 1, 2010 shall be processed as a Type III permit pursuant to Section 17.49.200, Adjustment from Standards.

B. Mitigation is required, subject to Section 17.49.180 or 17.49.190. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Not applicable. This proposal does not relate to existing development.

17.49.140 - Standards for utility lines.

The following standards apply to new utilities, private connections to existing or new utility lines, and upgrades of existing utility lines within the NROD:

A. The disturbance area for private connections to utility lines shall be no greater than ten feet wide;

B. The disturbance area for the upgrade of existing utility lines shall be no greater than fifteen feet wide;

C. New utility lines shall be within the right-of-way, unless reviewed under subsection D.

D. New utility lines that cross above or underneath a drainage way, wetland, stream, or ravine within the NROD but outside of a right-of-way shall be processed as a Type III permit pursuant to Section 17.49.200, Adjustment from Standards.

E. No fill or excavation is allowed within the ordinary high water mark of a stream without the approval of the Division of State Lands and/or the U.S. Army Corps of Engineers;

F. The Division of State Lands must approve any work that requires excavation or fill in a wetland;

G. Native trees more than ten inches in diameter shall not be removed unless it is shown that there are no feasible alternatives; and

H. Each six to ten-inch diameter native tree cut shall be replaced at a ratio of three trees for each one removed. Each eleven-inch or greater diameter native tree shall be replaced at a ratio of five trees for each removed. The replacement trees shall be a minimum one-half inch diameter and selected from the Oregon City Native Plant List. All trees shall be planted on the applicant's site. Where a utility line is approximately parallel with the stream channel, at least half of the replacement trees shall be planted between the utility line and the stream channel.

I. Mitigation is required, subject to <u>Section 17.49.180</u> or <u>17.49.190</u>.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Private connections associated with the proposed development will have no additional impacts. The applicant proposes to run sanitary sewer, gas, and water in the same trench, to minimize disturbance. I will be able to maintain all required separation between utilities. Power will be run overhead (*Figure 7*).



17.49.150 - Standards for vehicular or pedestrian paths and roads.

The following standards apply to public rights-of-way and private roads within the NROD, including roads, bridges/stream crossings, driveways and pedestrian paths with impervious surfaces:

A. Stream crossings shall be limited to the minimum number and width necessary to ensure safe and convenient pedestrian, bicycle and vehicle connectivity, and shall cross the stream at an angle as close to perpendicular to the stream channel as practicable. Bridges shall be used instead of culverts wherever practicable.

B. Where the right-of-way or private road crosses a stream the crossing shall be by bridge or a bottomless culvert;

C. No fill or excavation shall occur within the ordinary high water mark of a stream without the approval of the Division of State Lands and/or the U.S. Army Corps of Engineers;

D. If the Oregon Department of State Lands (DSL) has jurisdiction over any work that requires excavation or fill in a wetland, required permits or authorization shall be obtained from DSL prior to release of a grading permit;

E. Any work that will take place within the banks of a stream shall be conducted between June 1 and August 31, or shall be approved by the Oregon Department of Fish and Wildlife; and

F. Mitigation is required, subject to Section 17.49.180 or 17.49.190.

(Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Editor's note— Ord. No. 10-1003, § 1(Exh. 1), adopted July 7, 2010, renamed section 17.49.150 from "Standards for rights-of-ways" to "Standards for vehicular or pedestrian paths and roads."

Comment:

The proposed driveway and sidewalk will not impact aquatic resources (Figure 7).

17.49.155 - Standards for stormwater facilities.

Approved facilities that infiltrate stormwater on-site in accordance with Public Works Low-Impact Development standards, including but not limited to; vegetated swales, rain gardens, vegetated filter strips, and vegetated infiltration basins, and their associated piping, may be placed within the NROD boundary pursuant to the following standards:

A. The forest canopy within the driplines of existing trees shall not be disturbed.

B. Only vegetation from the Oregon City Native Plant List shall be planted within these facilities.

C. Mitigation is required, subject to Sections 17.49.180 or 17.49.190.

D. The storm water facility may encroach up to one-half the distance of the NROD corridor.

E. The stormwater facility shall not impact more than one thousand square feet of the NROD. Impacts greater than one thousand square feet shall be process as a Type III application.

F. The community development director may allow landscaping requirements of the base zone, other than landscaping required for parking lots, to be met by preserving, restoring and permanently protecting habitat on development sites within the Natural Resource Overlay District.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Not applicable. The applicant's proposal does not include stormwater facilities.



17.49.160 - Standards for land divisions.

Other than those land divisions exempted by Section 17.49.070G., new residential lots created within the NROD shall conform to the following standards.

A. For a lot for an existing residence currently within the NROD. This type of lot is allowed within the NROD for a residence that existed before the NROD was applied to a subject property. A new lot for an existing house may be created through a partition or subdivision process when all of the following are met:

1. There is an existing house on the site that is entirely within the NROD area; and

2. The existing house will remain; and

3. The new lot is no larger than required to contain the house, minimum required side setbacks, garage, driveway and a twenty-foot deep rear yard, with the remaining NROD area beyond that point protected by a conservation easement, or by dedicating a conservation tract or public open space.

B. Subdivisions.

1. Prior to preliminary plat approval, the NROD area shall be shown either as a separate tract or part of a larger tract that meets the requirements of subsection 3. of this section, which shall not be a part of any parcel used for construction of a dwelling unit.

2. Prior to final plat approval, ownership of the NROD tract shall be identified to distinguish it from lots intended for sale. The tract may be identified as any one of the following:

a. Private open space held by the owner or a homeowners association; or b. For residential land divisions, private open space subject to an easement conveying stormwater and surface water management rights to the city and preventing the owner of the tract from activities and uses inconsistent with the purpose of this document; or c. At the owners option, public open space where the tract has been dedicated to the city or other governmental unit; or

d. Any other ownership proposed by the owner and approved by the city.

e. Tracts shall be exempt from minimum frontage requirements.

C. Partitions.

1. New partitions shall delineate the NROD area either as a separate tract or conservation easement that meets the requirements of subsection 2. of this section.

2. Prior to final plat approval, ownership and maintenance of the NROD area shall be identified to distinguish it from the buildable areas of the development site. The NROD area may be identified as any one of the following:

a. A tract of private open space held by the owner or homeowners association; or

b. For residential land divisions, a tract of private open space subject to an easement conveying stormwater and surface water management rights to the city and preventing the owner of the tract from activities and uses inconsistent with the purpose of this document; or

c. At the owners option, public open space where the tract has been dedicated to the city or other governmental unit;

d. Conservation easement area pursuant to Section 17.49.180G. and approved in form by the community development director;

e. Any other ownership proposed by the owner and approved by the community development director.

f. Tracts shall be exempt from minimum frontage requirements.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)



Comment:

Not applicable. The applicant's proposal does not relate to land divisions.

17.49.170 - Standards for trails.

The following standards apply to trails within the NROD: A. All trails that are not exempt pursuant to Section 17.49.80F., except as designated in the Oregon City Parks, Open Space and Trails Master Plans; and B. Mitigation is required, subject to Section 17.49.180 or 17.49.190. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Not applicable. The applicant's proposal does not relate to trails.

17.49.180 - Mitigation standards.

The following standards (or the alternative standards of Section 17.49.190) apply to required mitigation: A. Mitigation shall occur at a two-to-one ratio of mitigation area to proposed NROD disturbance area. Mitigation of the removal or encroachment of a wetland or stream shall not be part of this chapter and will be reviewed by the Division of State Lands or the Army Corp of Engineers during a separate review process; B. Mitigation shall occur on the site where the disturbance occurs, except as follows:

1. The mitigation is required for disturbance associated with a right-of-way or utility in the right-ofway;

2. The mitigation shall occur first on the same stream tributary, secondly in the Abernethy, Newell or Livesay Creek or a tributary thereof, or thirdly as close to the impact area as possible within the NROD; and

3. An easement that allows access to the mitigation site for monitoring and maintenance shall be provided as part of the mitigation plan.

C. Mitigation shall occur within the NROD area of a site unless it is demonstrated that this is not feasible because of a lack of available and appropriate area. In such cases, the proposed mitigation area shall be contiguous to the existing NROD area so the NROD boundary can be easily extended in the future to include the new resource site.

D. Invasive and nuisance vegetation shall be removed within the mitigation area;

E. Required Mitigation Planting. An applicant shall meet Mitigation Planting Option 1 or 2 below, whichever option results in more tree plantings, except that where the disturbance area is one acre or more, Mitigation Option 2 shall be required. All trees, shrubs and ground cover shall be selected from the Oregon City Native Plant List.

NOTE: Applications on sites where no trees are present or which are predominantly covered with invasive species shall be required to mitigate the site, remove the invasive species and plant trees and native plants pursuant to Option 2.

1. Mitigation Planting Option 1.

a. Option 1 - Planting Quantity. This option requires mitigation planting based on the number and size of trees that are removed from the site pursuant to Table 17.49.180E.1.a. Conifers shall be replaced with conifers. Bare ground shall be planted or seeded with native grasses and ground cover species.



Size of Tree to be Removed (DBH)	Number of Trees and Shrubs to be Replanted		
6 to 12"	2 trees and 3 shrubs		
13 to 18"	3 trees and 6 shrubs		
19 to 24"	5 trees and 12 shrubs		
25 to 30"	7 trees and 18 shrubs		
Over 30"	10 trees and 30 shrubs		

Table 17.49.180E.1.a.—Required Planting Option 1

b. Option 1 - Plant Size. Replacement trees shall be at least one-half inch in caliper on average, measured at six inches above the ground level for field grown trees or above the soil line for container grown trees. Oak, madrone, ash or alder may be one gallon size. Conifers shall be a minimum of six feet in height. Shrubs must be in at least one-gallon container size or the equivalent in ball and burlap, and shall be at least twelve inches in height at the time of planting. All other species shall be a minimum of four-inch pots; c. Option 1 - Plant Spacing. Except for the outer edges of mitigation areas, trees and shrubs shall be planted in a non-linear fashion. Plant spacing for new species shall be measured from the driplines of existing trees when present. Trees shall be planted on average between eight and twelve feet on center, and shrubs shall be planted on average between four and five feet on center, or clustered in single species groups of no more than four plants, with each cluster planted on average between eight and ten feet on center.

d. Option 1 - Mulching and Irrigation. Mulch new plantings a minimum of three inches in depth and eighteen inches in diameters. Water new plantings one inch per week from June 30th to September 15th, for the three years following planting.

e. Option 1 — Plant Diversity. Shrubs shall consist of at least two different species. If ten trees or more are planted, no more than one-half of the trees may be of the same genus. 2. Mitigation Planting Option 2.

a. Option 2 - Planting Quantity. In this option, the mitigation requirement is calculated based on the size of the disturbance area within the NROD. Native trees and shrubs are required to be planted at a rate of five trees and twenty-five shrubs per every five hundred square feet of disturbance area (calculated by dividing the number of square feet of disturbance area by five hundred, and then multiplying that result times five trees and twenty-five shrubs, and rounding all fractions to the nearest whole number of trees and shrubs; for example, if there will be three hundred thirty square feet of disturbance area, then three hundred thirty divided by five hundred equals .66, and .66 times five equals 3.3, so three trees must be planted, and .66 times twenty-five equals 16.5, so seventeen shrubs must be planted). Bare ground must be planted or seeded with native grasses or herbs. Non-native sterile wheat grass may also be planted or seeded, in equal or lesser proportion to the native grasses or herbs.



b. Option 2 - Plant Size. Plantings may vary in size dependent on whether they are live cuttings, bare root stock or container stock, however, no initial plantings may be shorter than twelve inches in height.

c. Option 2 - Plant Spacing. Trees shall be planted at average intervals of seven feet on center. Shrubs may be planted in single-species groups of no more than four plants, with clusters planted on average between eight and ten feet on center.

d. Option 2 — Mulching and Irrigation shall be applied in the amounts necessary to ensure eighty percent survival at the end of the required five-year monitoring period.

e. Option 2 — Plant Diversity. Shrubs shall consist of at least three different species. If twenty trees or more are planted, no more than one-third of the trees may be of the same genus.

An alternative planting plan using native plants may be approved in order to create a new wetland area, if it is part of a wetlands mitigation plan that has been approved by the DSL or the U.S. Army Corps of Engineers (USACE) in conjunction with a wetland joint removal/fill permit application.

F. Monitoring and Maintenance. The mitigation plan shall provide for a five-year monitoring and maintenance plan with annual reports in a form approved by the director of community development. Monitoring of the mitigation site is the on-going responsibility of the property owner, assign, or designee, who shall submit said annual report to the city's planning division, documenting plant survival rates of shrubs and trees on the mitigation site. Photographs shall accompany the report that indicate the progress of the mitigation. A minimum of eighty percent survival of trees and shrubs of those species planted is required at the end of the five-year maintenance and monitoring period. Any invasive species shall be removed and plants that die shall be replaced in kind. Bare spots and areas of invasive vegetation larger than ten square feet that remain at the end the five-year monitoring period shall be replanted or reseeded with native grasses and ground cover species.

G. Covenant or Conservation Easement. Applicant shall record a restrictive covenant or conservation easement, in a form provided by the city, requiring the owners and assigns of properties subject to this section to comply with the applicable mitigation requirements of this section. Said covenant shall run with the land, and permit the city to complete mitigation work in the event of default by the responsible party. Costs borne by the city for such mitigation shall be borne by the owner.

H. Financial Guarantee. A financial guarantee for establishment of the mitigation area, in a form approved by the city, shall be submitted before development within the NROD disturbance area commences. The city will release the guarantee at the end of the five-year monitoring period, or before, upon it's determination that the mitigation plan has been satisfactorily implemented pursuant to this section. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The OCPD recommended that the applicant pursue the Alternative Mitigation Standards presented below in Section 17.49.190.

17.49.190 - Alternative mitigation standards.

In lieu of the above mitigation standards of Section 17.49.180, the following standards may be used. Compliance with these standards shall be demonstrated in a mitigation plan report prepared by an environmental professional with experience and academic credentials in one or more natural resource areas such as ecology, wildlife biology, botany, hydrology or forestry. At the applicant's expense, the city may require the report to be reviewed by an environmental consultant.



[A.] The report shall document the existing condition of the vegetated corridor as one of the following categories:

Good Existing Vegetated Corridor:	Combination of trees, shrubs and groundcover are eighty percent present, and there is more than fifty percent tree canopy coverage in the vegetated corridor.
Marginal Existing	Combination of trees, shrubs and groundcover are eighty percent present,
Vegetated Corridor:	and twenty-five to fifty percent canopy coverage in the vegetated corridor.
Degraded Existing	Less vegetation and canopy coverage than marginal vegetated corridors,
Vegetated Corridor:	and/or greater than ten percent surface coverage of any non-native species.

B. The proposed mitigation shall occur at a minimum two-to-one ratio of mitigation area to proposed disturbance area;

C. The proposed mitigation shall result in a significant improvement to Good Existing Condition as determined by a qualified environmental professional;

D. There shall be no detrimental impact on resources and functional values in the area designated to be left undisturbed;

E. Where the proposed mitigation includes alteration or replacement of development in a stream channel, wetland, or other water body, there shall be no detrimental impact related to the migration, rearing, feeding or spawning of fish;

F. Mitigation shall occur on the site of the disturbance to the extent practicable. If the proposed mitigation cannot practically occur on the site of the disturbance, then the applicant shall possess a legal instrument, such as an easement, sufficient to carryout and ensure the success of the mitigation. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The applicant's proposal meets the standards presented in this section. Mitigation is proposed in Section 5 of this report. The standards listed above are addressed below, as required in Section 17.49.230(A).

A. The corridor condition is degraded (see Section 5.2).

B. The proposed mitigation will occur at a 2:1 ratio (see Section 5.1).

C. The proposed mitigation shall result in a significant improvement to Good Existing Condition. The planting and maintenance proposed in Sections 5.4 and 5.6 will ensure 80 percent aerial cover of native vegetation; 50 percent cover of native trees; and less than 10% cover of invasive plant species (*see Section 5.10 Performance Standards*).

D. There shall be no detrimental impact on resources and functional values in the area designated to be left undisturbed. The property owner will maintain existing uses but not exceed them (*see Section 5.1*).

E. The applicant's proposal does not include alteration or replacement of development in a stream channel, wetland, or other water body (*see Section 5.1*).

F. Mitigation would occur on the site of the disturbance to the extent practicable (see Section 5.1).



17.49.200 - Adjustment from standards.

If a regulated NROD use cannot meet one or more of the applicable NROD standards then an adjustment may be issued if all of the following criteria are met. Compliance with these criteria shall be demonstrated by the applicant in a written report prepared by an environmental professional with experience and academic credentials in one or more natural resource areas such as ecology, wildlife biology, botany, hydrology or forestry. At the applicant's expense, the City may require the report to be reviewed by an environmental consultant. Such requests shall be processed under the Type III development permit procedure. The applicant shall demonstrate:

A. There are no feasible alternatives for the proposed use or activity to be located outside the NROD area or to be located inside the NROD area and to be designed in a way that will meet all of the applicable NROD development standards;

B. The proposal has fewer adverse impacts on significant resources and resource functions found in the local NROD area than actions that would meet the applicable environmental development standards;

C. The proposed use or activity proposes the minimum intrusion into the NROD area that is necessary to meet development objectives;

D. Fish and wildlife passage will not be impeded;

E. With the exception of the standard(s) subject to the adjustment request, all other applicable NROD standards can be met; and

F. The applicant has proposed adequate mitigation to offset the impact of the adjustment. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The statements listed above are addressed below:

A. There are no feasible alternatives for the proposed use or activity to be located outside the NROD area or to be located inside the NROD area and to be designed in a way that will meet all of the applicable NROD development standards.

The property is entirely encompassed by the NROD area. There are no alternative designs that could meet applicable all NROD development standards or alternative layouts with less encroachment.

B. The proposal has fewer adverse impacts on significant resources and resource functions found in the local NROD area than actions that would meet the applicable environmental development standards;

No significant resources or associated functions will be impaired by the proposed development. Fergusson Creek is adjacent to the proposed single-family home. Runoff will be dispersed in the Vegetated Corridor to offset peak flows during precipitation events. The proposed vegetated corridor will provide shade and organic inputs into the creek that previously did not exist.

C. The proposed use or activity proposes the minimum intrusion into the NROD area that is necessary to meet development objectives;

The entire property is within the NROD area. The property is a highly constrained lot of record that is allowed a maximum of 1,500 sq ft of disturbance (OCMC 17.49.120.D). The proposed 1,032 sq ft living space is the minimum to meet the applicant's development objectives.



D. Fish and wildlife passage will not be impeded;

Fish and wildlife passage will not be impeded by the proposed development. Mitigation measures will serve to enhance habitat.

E. With the exception of the standard(s) subject to the adjustment request, all other applicable NROD standards can be met.

With the exception of the standards subject to the adjustment request, all other applicable NROD standards will be met.

F. The applicant has proposed adequate mitigation to offset the impact of the adjustment.

The proposed mitigation meets applicable mitigation standards (see Section 5).

Application Requirements

17.49.210 - Type II development permit application.

Unless otherwise directed by the NROD standards, proposed development within the NROD shall be processed as a Type II development permit application. All applications shall include the items required for a complete application by Sections 17.49.220—17.49.230, and Section 17.50.080 of the Oregon City Municipal Code as well as a discussion of how the proposal meets all of the applicable NROD development standards 17.49.100—17.49.170.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The OCPD and NROD standards require that the Type III process be utilized for the proposed development.

17.49.220 - Required site plans.

Site plans showing the following required items shall be part of the application: A. For the entire subject property (NROD and non-NROD areas):

1. The NROD district boundary. This may be scaled in relation to property liens from the NROD Map;

2. One hundred-year floodplain and floodway boundary (if determined by FEMA); 3. Creeks and other waterbodies;

4. Any wetlands, with the boundary of the wetland that will be adjacent to the proposed development determined in a wetlands delineation report prepared by a professional wetland specialist and following the Oregon Division of State Lands wetlands delineation procedures;
5. Topography shown by contour lines of two or one foot intervals for slopes less than fifteen percent

and by ten-foot intervals for slopes fifteen percent or greater;

6. Existing improvements such as structures or buildings, utility lines, fences, driveways, parking areas, etc.

7. Extent of the required Vegetated Corridor required by Table 17.49.110. B. Within the NROD area of the subject property:



1. The distribution outline of shrubs and ground covers, with a list of most abundant species; 2. Trees six inches or greater in diameter, identified by species. When trees are located in clusters they may be described by the approximate number of trees, the diameter range, and a listing of dominant species;

3. An outline of the disturbance area that identifies the vegetation that will be removed. All trees to be removed with a diameter of six inches or greater shall be specifically identified as to number, trunk diameters and species;

4. If grading will occur within the NROD, a grading plan showing the proposed alteration of the ground at two foot vertical contours in areas of slopes less than fifteen percent and at five foot vertical contours of slopes fifteen percent or greater.

- C. A construction management plan including:
 - 1. Location of site access and egress that construction equipment will use;
 - 2. Equipment and material staging and stockpile areas;
 - 3. Erosion control measures that conform to City of Oregon City erosion control standards;
 - 4. Measures to protect trees and other vegetation located outside the disturbance area.
- D. A mitigation site plan demonstrating compliance with Section 17.49.180 or 17.49.190, including:
 - 1. Dams, weirs or other in-water features;
 - 2. Distribution, species composition, and percent cover of ground covers to be planted or seeded;
 - 3. Distribution, species composition, size, and spacing of shrubs to be planted;
 - 4. Location, species and size of each tree to be planted;
 - 5. Stormwater management features, including retention, infiltration, detention, discharges and outfalls;
 - 6. Water bodies or wetlands to be created, including depth;

7. Water sources to be used for irrigation of plantings or for a water source for a proposed wetland. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The applicant and consultant have prepared the required items. The mitigation site plan is included in Figure 4 of this report and the other required site plans have been submitted with the development application.

17.49.230 - Mitigation plan report.

A mitigation plan report that accompanies the above mitigation site plan is also required. The report shall be prepared by an environmental professional with experience and academic credentials in one or more natural resource areas such as ecology, wildlife biology, botany, hydrology or forestry. The mitigation plan report shall, at a minimum, discuss:

A. Written responses to each applicable Mitigation Standard [Section] 17.49.180 or 17.49.190 indicating how the proposed development complies with the mitigation standards;

B. The resources and functional values to be restored, created, or enhanced through the mitigation plan; C. Documentation of coordination with appropriate local, regional, state and federal regulatory/resource agencies such as the Oregon Department of State Lands (DSL) and the United States Army Corps of Engineers (USACE);

D. Construction timetables;

E. Monitoring and Maintenance practices pursuant to Section 17.49.230.F and a contingency plan for undertaking remedial actions that might be needed to correct unsuccessful mitigation actions during the first five years of the mitigation area establishment.



(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

The mitigation plan addresses all of the items listed above and is presented in Section 5 of this report.

Miscellaneous

17.49.240 - Density transfer.

The NROD allocates urban densities to the Non-NROD portions of properties located partially within the NROD, generally resulting in a substantial increase in net development potential.

For lots of record that are located within the NROD, additional density transfer credits are allowed, subject to the following provisions:

A. Density may be transferred from the NROD to non-NROD portions of the same property or of contiguous properties within the same development site;

B. The residential transfer credit shall be as follows: for new residential partitions and subdivisions, one-third of the area of the NROD tract or conservation easement area may be added to the net developable area outside of the tract or conservation easement area within the boundary of the development site in order to calculate the allowable number of lots.

C. Permitted Modifications to Residential Dimensional Standards. In order to allow for a transfer of density pursuant to subsection B. above, the dimensional standards of the base zone may be modified in order minimize disturbance to the NROD. The permissible reductions are specified in Tables 17.49.240C.— 17.49.240D.

D. The applicant shall demonstrate that the minimum lot size of the underlying zone has been met. The area of the NROD in subsection B. above that is used to transfer density may be included in the calculation of the average minimum lot size.

E. The applicant may choose to make the adjustments over as many lots as required. For example, the lot reduction could be spread across all the remaining lots in the proposed subdivision or partition or could be applied to only those needed to incorporate the areas of the NROD Tract.

ZONE	Min. Lot Size (%)	Min. Lot Width	Min. Lot Depth
R-10	5,000 sq. feet	50'	65'
R-8	4,000 sq. feet	45'	60'
R-6	3,500 sq. feet	35'	55'
R-5	3,000 sq. feet	30'	50'
R-3.5	1,800 sq. feet	20'	45'

Table 17.49.240 A: Lot Size Reduction



Size of Reduced Lot	Front Yard Setback	Rear Yard Setback	Side yard Setback	Corner Side	Lot
8,000— 9,999 square feet	15 feet	20 feet	7/9 feet	15 feet	40%
6,000— 7,999 square feet	10 feet	15 feet	5/7 feet	15 feet	40%
4,000— 5,999 square feet	10 feet	15 feet	5/5 feet	10 feet	40%
1,800— 3,999 square feet	5 feet	15 feet	5/5 feet	10 feet	55%

Table 17.49.240 B: Reduced Dimensional Standards for Detached Single-Family Residential Units

Table 17.49.240 C

Reduced Dimensional Standards for Single-Family Attached or Two-Family Residential Units

Size of Reduced Lot	Front Yard Setback	Rear Yard Setback	Side yard Setback	Corner Side	Lot
3,500— 7,000 square feet	10 feet	15 feet	5/0* feet	10 feet	40%
1,800— 3,499 square feet	5 feet	15 feet	5/0* feet	10 feet	55%

*0 foot setback is only allowed on single-family attached units

F. Transfers for properties zoned Commercial, Institutional, Industrial or Multi-Family uses the transfer credit is ten thousand sq[uare] f[ee]t per acre of land within the NROD;

G. The area of land contained in the NROD area may be excluded from the calculations for determining compliance with minimum density requirements of the land division code.



H. The owner of the transferring property shall execute a covenant with the city that records the transfer of density. The covenant shall be found to meet the requirements of this section and be recorded before building permits are issued; and

I. All other applicable development standards, including setbacks, building heights, and maximum lot coverage shall continue to apply when a density transfer occurs.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Not applicable. The applicant's proposal does not relate to density transfer.

17.49.250 - Verification of NROD boundary.

The NROD boundary may have to be verified occasionally to determine the true location of a resource and its functional values on a site. This may through a site specific environmental survey or, in those cases where existing information demonstrates that the NROD significance rating does not apply to a site-specific area. Applications for development on a site located in the NROD area may request a determination that the subject site is not in an NROD area and therefore is not subject to the standards of Section 17.49.100. Verifications shall be processed as either a Type I or Type II process. (Ord. No. 08-1014, §§ 1—3(Exhs. 1—3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

A wetland delineation was conducted and the results are presented in Section 3 of this report.

17.49.255 - Type I verification.

A. Applicants for a determination under this section shall submit a site plan meeting the requirements of Section 17.49.220, as applicable.

B. Alternatively, an applicant may request a Type I Verification determination by the community development director by making an application therefore and paying to the city a fee as set by resolution of the city commission. Such requests may be approved provided that there is evidence substantiating that all the requirements of this chapter relative to the proposed use are satisfied and demonstrates that the property also satisfies the following criteria, as applicable:

1. No soil, vegetation, hydrologic features have been disturbed;

2. No hydrologic features have been changed;

3. There are no man-made drainage features, water marks, swash lines, drift lines present on trees or shrubs, sediment deposits on plants, or any other evidence of sustained inundation.

4. The property does not contain a wetland as identified by the city's local wetland inventory or water quality and flood management areas map.

 There is no evidence of a perennial or intermittent stream system or other protected water feature. This does not include established irrigation ditches currently under active farm use, canals or manmade storm or surface water runoff structures or artificial water collection devices.
 Evidence of prior land use approvals that conform to the City's existing Water Quality Resource

Area Overlay District.

There is an existing physical barrier between the site and a protected water feature, including:

a. Streets, driveways, alleys, parking lots or other approved impervious areas wider than fifteen feet and which includes drainage improvements that are connected to the city storm sewer system, as approved by the city.



b. Walls, buildings, drainages, culverts or other structures and which form a physical barrier between the site and the protected water features, as approved by the city.

C. If a the city is not able to clearly determine, through the Type I verification process that the applicable criteria subsection B.1.—B.6. above are met the verification application shall be denied. An applicant may then opt to apply for an verification through the Type II process defined below.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Not applicable. The applicant's proposal does not relate to a Type I verification.

17.49.260. - Type II verification.

Verifications of the NROD which cannot be determined pursuant to the standards of Section 17.49.255 may be processed under the Type II permit procedure.

A. Applicants for a determination under this section shall submit a site plan meeting the requirements of Section 17.49.220 as applicable.

B. Such requests may be approved provided that there is evidence that demonstrates in an environmental report prepared by one or more qualified professionals with experience and credentials in natural resource areas, including wildlife biology, ecology, hydrology and forestry, that a resource function(s) and/or land feature(s) does not apply to a site-specific area.

C. Verification to remove a recently developed area from the NROD shall show that all of the following have been met:

1. All approved development in the NROD has been completed;

2. All mitigation required for the approved development, located within the NROD, has been successful; and

3. The previously identified resources and functional values on the developed site no longer exist or have been subject to a significant detrimental impact.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)

Comment:

Not applicable. The applicant's proposal does not relate to a Type II verification.

17.49.265 - Corrections to violations.

For correcting violations, the violator shall submit a remediation plan that meets all of the applicable standards of the NROD. The remediation plan shall be prepared by one or more qualified professionals with experience and credentials in natural resource areas, including wildlife biology, ecology, hydrology and forestry. If one or more of these standards cannot be met then the applicant's remediation plan shall demonstrate that there will be:

A. No permanent loss of any type of resource or functional value listed in Section 17.49.10, as determined by a qualified environmental professional;

B. A significant improvement of at least one functional value listed in section 17.49.10, as determined by a qualified environmental professional; and

C. There will be minimal loss of resources and functional values during the remediation action until it is fully established.

(Ord. No. 08-1014, §§ 1-3(Exhs. 1-3), 7-1-2009; Ord. No. 10-1003, § 1(Exh. 1), 7-7-2010)



Comment:

Not applicable. The applicant's proposal does not relate to a violation.

SECTION 5. MITIGATION

Section 5.1 Proposed Impacts and Mitigation

The proposed residence will encroach on 1,500 sq ft of the Vegetated Corridor associated with Fergusson Creek. Construction would occur in the summer of 2016 if the permitting process is completed. OCMC Section 17.49.190 requires mitigation at a 2:1 ratio. The applicant proposes to enhance 650 sq ft of Fergusson Creek and 2350 sq ft of Vegetated Corridor to offset the proposed impacts (*Figure 4*). Mitigation will occur on the site of the disturbance to the extent practicable. A small amount of the mitigation will occur on Lot 9 to the east and small amount will occur in the Frederick Street right-of-way.

Invasive plant species will be removed from the mitigation area and native species will be planted. The existing fence and railroad ties south of the creek will be removed. There will be no detrimental impact on resources or functional values in the area designated to be left undisturbed. The existing use as a maintained lawn will continue as such. The proposed mitigation does not include alteration or replacement of development in a stream channel, wetland, or other water body. There will be no detrimental impact related to the migration, rearing, feeding, or spawning of fish caused by the development or mitigation proposal.

Section 5.2 Vegetated Corridor Condition Assessment

The current condition of the Vegetated Corridor associated with Fergusson Creek in the vicinity of the project area is degraded. Tree cover is about 20% on the subject property. There is no shrub cover. Herbaceous cover is near 100%. Non-native plant cover is near 100%. None of the species are on the Oregon Department of Agriculture ("ODA") Noxious Weed List but nuisance species such as Himalayan blackberry (*Rubus armeniacus*), reed canarygrass (*Phalaris arundinacea*), and Teasel (*Dipsacus fullonum*) are present within the stream channel. The proposed mitigation will improve the condition from Degraded Existing Condition to Good Existing Condition.

Section 5.3 Functional Assessment

The proposed mitigation will enhance the subject reach of Fergusson Creek and the Vegetated Corridor. A brief description of the existing and proposed condition of Fergusson Creek and the Vegetated Corridor is provided below. A Best Professional Judgement ("BPJ") assessment was conducted that provides a rating from low to high for several relevant functions.

Tuble 1. Fergusson creek runction Summary			
Functional Attributes	Existing Condition	Proposed Condition	
Riparian Shade	Low	High	
Channel Sinuosity	Low	Low	
Bank Stability	Moderate	High	
Habitat Complexity	Low	Moderate	
Floodplain Connectivity	Low	Low	
Native Species Ubiquity	Low	High	

Table 1. Fergusson Creek Function Summary



Functional Attributes	Existing Condition	Proposed Condition	
Riparian Shade	Low	High	
Wildlife Habitat	Low	Moderate	
Wood Recruitment	Low	Moderate	
Organic Matter Export	Low	Moderate	
Food Source	Low	Moderate	
Nutrient Absorption	Low	Moderate	
Native Species Ubiquity	Low	High	

Table 2. Vegetated Corridor Functional Summary

Section 5.4 Planting Plan

The mitigation site has been divided into two planting areas based on hydrologic regime (*Figure 4*). Planting Area A is located below the top of bank of Fergusson Creek and extends to the southern property boundary. Planting Area A receives extensive hydrology and the plants have been specified accordingly. Planting Area B is located in the upland portion of the mitigation area. The plant species proposed in this area prefer moist to dry conditions.

Fifteen trees and seventy-five shrubs (6' o.c.) will be planted in the mitigation area (*Table 3*). Willow and dogwood stakes are specified in clumps of three (3' o.c.). 25 herbaceous plugs are specified within the creek channel (5' o.c.). One pound of native grass seed will be broadcast by hand (*Table 4*). The species were chosen based on hydrology tolerance, light requirements, and historic plant community associations. Each tree and shrub will receive, at a minimum, an 18-inch ring of mulch at least three inches deep. Care should be taken not to bury the stem with mulch.

Common Name	Species Name	Quantity	Туре	
Trees (12' on center sp	oacing)			
Cascara	Rhamnus purshiana	2	1 gallon	
Douglas-fir	Pseudotsuga menziesii	3	1 gallon	
Oregon ash	Fraxinus latifolia	3	1 gallon	
Pacific crabapple	Malus fusca	2	1 gallon	
Pacific willow	Salix lasiandra	5 (15)	live stake	
Western redcedar	Thuja plicata	5	1 gallon	
Shrubs (6' on center s	pacing)			
Bald-hip rose	Rosa gymnocarpa	10	1 gallon	
Oceanspray	Holodiscus discolor	10	1 gallon	
Red-osier dogwood	Cornus stolonifera	5 (15)	live stake	
Salmonberry	Rubus spectabilis	10	1 gallon	
Sitka willow	Salix sitchensis	10 (30)	live stake	
Snowberry	Symphoricarpos albus	10	1 gallon	
Thimbleberry	Rubus parviflorus	10	1 gallon	
Herbs (5' on center sp	Herbs (5' on center spacing)			
Small-fruited bulrush	Scirpus microcarpus	25	4′ plug	

Table 3. Plant Specifications



Common Name	Species Name		
American sloughgrass	Beckmannia syzigachne		
Slender hairgrass	Deschampsia elongata		
Spike bentgrass	Agrostis exarata		
Tall mannagrass	Glyceria elata		
Tufted hairgrass	Deschampsia cespitosa		
Weak alkali grass	Torreyochloa pauciflora		

Table 4. Grass Seed Specifications

Section 5.5 Irrigation

The small size of the mitigation area will allow for a relatively simple irrigation system. A splitter valve will be added to the spigot on the north side of the house. A timer will be attached to filter and pressure reducer. Polyethylene mainline tubing will run the length of the mitigation area. Impact sprinklers will be installed every 25 feet along the tubing. The site would be watered one inch per week from June 30th to September 15th.

Section 5.6 Maintenance

Maintenance would be conducted once per month between April and October throughout the five-year monitoring period. Maintenance would include invasive species control, mulching, garbage removal, and irrigation repair. Manual and mechanical methods will be preferred over chemical application.

Section 5.7 Monitoring

Monitoring will be conducted once per year throughout the five-year monitoring period. Monitoring will occur late in the growing season before deciduous leaves begin to fall. Monitoring reports will be submitted prior to December 31st of each monitoring year.

Section 5.8 Monitoring Methods

Vegetation sampling will be conducted late in the growing season, before leaves fall of deciduous plants, in each of the five monitoring years. A total count of trees and shrubs will be conducted to determine percent survival. Five monitoring plots will be established within the mitigation area (*Figure 5*). Plots will be monumented in the field with orange fiberglass rods. Sample plots will be situated in the same manner from year to year. The bottom left corner of herbaceous plots will be placed at the plot marker and the left edge of the one-meter quadrat frame will be situated to run due east. Shrub and Forest plots are circular plots radiating 10 feet from the plot marker. Vegetation data will be recorded at each plot including species names, percent aerial cover for each species (absolute cover), and percent bare ground. The sample plots will be placed in the same area, relative to the plot center, to ensure reproducible results. Four photopoints will be established across the site to document change over time.

A plant species should automatically be labeled as invasive if it appears on the current Oregon Department of Agriculture Noxious Weed list, plus known problem species including *Phalaris arundinacea, Mentha pulegium, Holcus lanatus, Anthoxanthum odoratum*, and the last crop plant if it is non-native. Non-native plants should be labeled as such if they are listed as non-native on the USDA Plants Database. Beginning in Year Two of monitoring, a non-native plant species will be considered invasive if it comprises more than 15% cover in 10% or more of the sample plots and increases in cover or



frequency from the previous monitoring period. Plants that meet this definition should be considered invasive for all successive years of monitoring.

Section 5.9 Monitoring Report

A qualified environmental specialist will survey the mitigation site annually and report their findings in a monitoring report. The report will document survival rates, species cover, maintenance activities, and general observations. Data will be analyzed to determine if Performance Standards have been successfully achieved. Site photographs will be included with the report.

Section 5.10 Performance Standards

Performance Standard 1: By Year Five, the mitigation site will exhibit an 80% survival rate.

Performance Standard 2: The cover of invasive species shall be no more than 50% in Year Two, 25% in Year Four, and 10% in Year Five.

Performance Standard 3: By Year Five, there shall be no bare spots or areas of invasive species larger than 10 sq ft. Any such areas shall be replanted or reseeded with native grasses and ground cover species.

Section 5.11 Contingency Plan

In the event that the project is not meeting performance standards, the applicant shall perform remedial actions such as invasive plant removal, native, plantings, and irrigation repair. The monitoring period may be extended at the discretion of the Community Development Department.

Section 5.12 Financial Guarantee.

A financial guarantee for establishment of the mitigation area, in a form approved by the city, shall be submitted before development within the NROD disturbance area commences. The city will release the guarantee at the end of the five-year monitoring period, or before, upon determination that the mitigation plan has been satisfactorily implemented.

Section 5.13 Covenant or Conservation Easement

The applicant shall record a restrictive covenant or conservation easement, in a form provided by the city, requiring the owners and assigns of properties subject to this section to comply with the applicable mitigation requirements of this section. Said covenant shall run with the land, and permit the city to complete mitigation work in the event of default by the responsible party. Costs borne by the city for such mitigation shall be borne by the owner.

Section 5.13 State and Federal Agency Coordination

The Oregon Department of State Lands and the United States Army Corps of Engineers would take jurisdiction over Fergusson Creek and its associated wetland. Permits and approvals from these agencies will not be necessary because no Removal-Fill activities are proposed within the stream or wetland. A wetland delineation report will not be necessary because the resources are being avoided and the total amount of removal-fill in uplands is less than 50 cubic yards. The agencies will be notified of the proposal through a Land Use Compatibility Statement. Turnstone contacted DSL on December 16, 2015 to verify this and the e-mail record can be provided if necessary.



Section 5.14 Adjustment from Standards

A. There are no feasible alternatives for the proposed use or activity to be located outside the NROD area or to be located inside the NROD area and to be designed in a way that will meet all of the applicable NROD development standards.

The property is entirely encompassed by the NROD area. There are no alternative designs that could meet applicable all NROD development standards or alternative layouts with less encroachment.

B. The proposal has fewer adverse impacts on significant resources and resource functions found in the local NROD area than actions that would meet the applicable environmental development standards;

No significant resources or associated functions will be impaired by the proposed development. *C. The proposed use or activity proposes the minimum intrusion into the NROD area that is necessary to meet development objectives;*

The entire property is within the NROD area. The property is a highly constrained lot of record that is allowed a maximum of 1,500 sq ft of disturbance (OCMC 17.49.120.D). The proposed 1,032 sq ft living space is the minimum to meet the applicant's development objectives.

D. Fish and wildlife passage will not be impeded;

Fish and wildlife passage will not be impeded by the proposed development. Mitigation measures will serve to enhance habitat.

E. With the exception of the standard(s) subject to the adjustment request, all other applicable NROD standards can be met.

To be determined by Community Development Department.

F. The applicant has proposed adequate mitigation to offset the impact of the adjustment.

The proposed mitigation meets applicable mitigation standards.

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- U.S. Army Corp of Engineers. 2013. State of Oregon-NWPL Final Draft Ratings.



Appendix A

Figures











Species Name	Quantity	Туре
amnus purshiana	2	1 gallon
eudotsuga menziesii	3	1 gallon
axinus latifolia	3	1 gallon
alus fusca	2	1 gallon
uja plicata	5	1 gallon
sa gymnocarpa	10	1 gallon
olodiscus discolor	10	1 gallon
bus spectabilis	10	1 gallon
mphoricarpos albus	10	1 gallon
bus parviflorus	10	1 gallon






(unimproved) Frederick St





Appendix **B**

Data Forms



WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Hiram Avenue	City/County: Oregon City/	Clackamas	Sampling Date: 04-0)ec-15
Applicant/Owner: Mark Shaw		State: OR	Sampling Point:	SP1
Investigator(s): Tom Dee	Section, Township, Rar	nge: S 2S T 2E	R _28	
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, co	nvex, none): flat	Slope:	0.5 % / °
Subregion (LRR): A Lat.:	45.369606	Long.: -122.578447	Datur	m: <u>NAD83</u>
Soil Map Unit Name: Woodburn silt loam, 3-8% slopes		NWI classifi	ication: none	
Are climatic/hydrologic conditions on the site typical for this time of ye	ar? Yes $ullet$ No $igodot$	(If no, explain in F	,	-
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "No	rmal Circumstances" pr	resent? Yes 🖲	No 🔿
Are Vegetation . , Soil , or Hydrology naturally p	roblematic? (If need	led, explain any answe	rs in Remarks.)	

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes O No O
Pemarks:		

Remarks:

Absolute Rel.Strat. Indicator Dominance Test worksheet: 1. 0 0.0% 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. <td< th=""><th>VEGETATION - Use scientific names of plar</th><th>nts.</th><th>Dominant Species?</th><th></th></td<>	VEGETATION - Use scientific names of plar	nts.	Dominant Species?	
1 0 0.0% 1 (A) 2 0 0.0% 1 (A) 3 0 0.0% 1 (B) 4 0 0.0% 1 (B) Sapling/Shrub Stratum (Plot size: 3m) 0 0.0% Prevalence Index worksheet: 2 0 0.0% Prevalence Index worksheet: 1 (A) 3 0 0.0% Prevalence Index worksheet: 1 (A) 3 0 0.0% Prevalence Index worksheet: 1 (A) 4 0 0.0% Prevalence Index worksheet: 1 (A) 5 0 0.0% FAC (A) (B) (A) 4 0 0.0% FAC (A) (B) (A) (A) 1 0 0.0% FAC (A) (A) (A) (A) 3 0 0.0% FAC (A) (A) (A) (A) (A) 1 Agrostis capillaris 0 0.0% FAC (C) (A) (· · /Platriza: Em)		Rel.Strat. Indicator	Dominance Test worksheet:
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3. 0 0.0% Species Across AI Strata: 1 (B) 4. 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 1. 0 0.0% Prevalence Index worksheet: Tatal % Cover of: Multiply by: 3. 0 0.0% Prevalence Index worksheet: Tatal % Cover of: Multiply by: 3. 0 0.0% FACW species 0 x 1 = 0 5. 0 0.0% FACW species 0 x 4 = 80 1. Agrostis capillaris 0 0.0% FAC Species 20 x 4 = 80 1. Agrostis capillaris 0 10.0% FAC Prevalence Index = B/A = 3.200 4.Taraxeum officinale 5 5.0% FACU Prevalence Index is 5.30 ¹ 1 Rapid Test for Hydrologic Vegetation 6 0 0.0% 2 0.0% 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				That are OBL, FACW, or FAC: (A)
4. 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 1. 0 0.0% Prevalence Index worksheet: 0 0.0% (BL species) 0 1. 0 0.0% (A/B) 3. 0 0.0% 00 0.0% (BL species) 0 1. 1. 0 1. 0 0.0% (BL species) 0 2.4 0 0.0% (BL species) 0. 2.4 0. 0. 0. 0. 0. 1. 0. 1. 0. 1. 0. 1. 0. 1. 0. 1. 0. 1. 0. 1. 0. 0. 0. 1. 0. 0.0% 1. 1. 0. 0.0% 1. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.				Total Number of Dominant
Agring/Shrub Stratum (Plot size: 3m) 0 = Total Cover Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 1 0 0.0% Prevalence Index worksheet: 2 0 0.0% OBL species 0 x 1 = 0 4 0 0.0% FACW species 0 x 1 = 0 5 0 0.0% FACW species 0 x 1 = 0 1. Agrostis capillaris 0 0.0% FAC species 0 x 2 = 0 1. Agrostis capillaris 80 Ø 80.0% FAC FAC upcheers 100 (A) 320 (B) 2. Dactylis glomerata 10 10.0% FACU Prevalence Index is 5.0.0 (A) 320 (B) 3. Hypochaeris radicata 5 5.0% FACU Prevalence Index is 5.0.0 (A) 320 (B) 7				Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 3m) 0 = total Cover That Are OBL, FACW, or FAC:	4	0	0.0%	Demont of dominant Creation
2. 0 0.0% Total % Cover of: Multiply by: 3. 0 0.0% Protein Stratum 4. 0 0.0% FACW species 0 x 1 = 0 5. 0 0.0% FACW species 0 x 2 = 0 1. Agrostis capillaris 0 = Total Cover FACU species 0 x 4 = 80 2. Dactylis glomerata 10 10.0% FACU Prevalence Index = B/A = 3.200 (B) 4. Taraxacum officinale 5 5.0% FACU Prevalence Index = B/A = 3.200 Hydrophytic Vegetation Indicators: 7. 0 0.0% 0 0.0% 0 3.200 Hydrophytic Vegetation 1 9. 0 0.0% 0 0.0% 0 0.4% 3.200 Hydrophytic Vegetation 1 10.2 0 0.0% 0 1.7 Rapid Test for Hydrologic Vegetation 1 10.2 0 0.0% 0 0.0% 0 0 0.0% 0 0 0 0 0 0 0 0 0 0 0 0	Sapling/Shrub Stratum_(Plot size: 3m)	0	= Total Cover	
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Herb Stratum (Plot size: 1m) 0 = Total CoverFAC x 4 = $\frac{80}{20}$ 1. Agrostis capillaris80 \forall 80.0%FAC a b x 4 = $\frac{80}{20}$ 2. Dactylis glomerata1010.0%FACU b b b b 3. Hypochaeris radicata55.0%FACUPrevalence Index = B/A = 3.200 a a 4. Taraxacum officinale55.0%FACUPrevalence Index = B/A = 3.200 a b 5.00.0% a a a a a a a 6.00.0% a a a a a a a 7.00.0% a a a a a a a 9.00.0% a a a a a a a 10.00.0% a a a a a a 9.00.0% a a a a a a 10.00.0% a a a a a a 10.00.0% a a a a a a a 10.00.0% a a a a a a a a 10.00.0% a <td< td=""><td></td><td></td><td>0.0%</td><td></td></td<>			0.0%	
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2. Dactylis glomerata 10 $10.0.\%$ FACU Prevalence Index = B/A =3.200 3. Hypochaeris radicata 5 5.0% FACU Hydrophytic Vegetation Indicators: 4. Taraxacum officinale 5 5.0% FACU Hydrophytic Vegetation Indicators: 5. 0 0.0% 1 Rapid Test for Hydrologic Vegetation 6. 0 0.0% 2 Dominance Test is > 50% 7. 0 0.0% 3 Prevalence Index is ≤3.0 1 9. 0 0.0% 3 Prevalence Index is ≤3.0 1 10. 0 0.0% 3 Prevalence Index is ≤3.0 1 9. 0 0.0% 3 Prevalence Index is ≤3.0 1 11. 0 0.0% 3 Prevalence Index is ≤3.0 1 11. 0 0.0% 5 Wetland Non-Vascular Plants 1 100 = Total Cover Problematic Hydrophytic Vegetation 1 (Explain) 1 1 0 0.0% Hydrophytic 2 0 0.0% Hydrophytic Vegetation Problematic. 4 Hydrophytic Vegetation P	1. Agrostis capillaris	80	✓ 80.0% FAC	
4_Taraxacum officinale 5 5.0% FACU 4_Taraxacum officinale 5 5.0% FACU 5 0 0.0% 1 Rapid Test for Hydrologic Vegetation 6 0 0.0% 2 Dominance Test is > 50% 7 0 0.0% 3 Prevalence Index is ≤3.0 1 9 0 0.0% 4 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) 10 0 0.0% 5 S Wetland Non-Vascular Plants 1 100 = Total Cover 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Wedey Vine Stratum: 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 1 0 0.0% 1 1 100 = Total Cover 1 Hydrophytic Vegetation Present? % Bare Ground in Herb Stratum: 0 0.0% No No		10	10.0% FACU	
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5. 0 0.0% 1 - Rapid Test for Hydrologic Vegetation 6. 0 0.0% 2 - Dominance Test is > 50% 7. 0 0.0% 3 - Prevalence Index is \$\$3.0^1 9. 0 0.0% 3 - Prevalence Index is \$\$3.0^1 9. 0 0.0% 3 - Prevalence Index is \$\$3.0^1 10. 0 0.0% 3 - Prevalence Index is \$\$3.0^1 10. 0 0.0% - - 11. 0 0.0% - - 11. 0 0.0% - - 11. 0 0.0% - - 11. 0 0.0% - - 11. 0 0.0% - - 11. 0 0.0% - - - 11. 0 0.0% - - - 11. 0 0.0% - - - 11. 0 0.0% - - - 11. 0 <td< td=""><td>4. Taraxacum officinale</td><td>5</td><td>5.0% FACU</td><td>Hydrophytic Vegetation Indicators:</td></td<>	4. Taraxacum officinale	5	5.0% FACU	Hydrophytic Vegetation Indicators:
6. 0 0.0% 7. 0 0.0% 8. 0 0.0% 9. 0 0.0% 10. 0 0.0% 11. 0 0.0% 12. 0 0.0% 14. Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 10. 0 0.0% 11. 0 0.0% 12. 0 0.0% 14. Problematic Hydrophytic Vegetation ¹ (Explain) 15. Vetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain) 1 100 2. 0 0.0% 0 0.0% 0 0 0.0% 0 0 0.0% 0 0 0.0% 0 0 0.0% 0 0 0.0% 0 0 0.0% 0 0 0.0% 0 0 0.0% 0 0 0.0% 0	5	0	0.0%	
7. 0 0.0% 3 - Prevalence Index is $\leq 3.0^{1}$ 9. 0 0.0% 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 10. 0 0.0% 5 - Wetland Non-Vascular Plants ¹ 11. 0 0.0% 5 - Wetland Non-Vascular Plants ¹ 10. 100 = Total Cover ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 12. 0 0.0% ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. % Bare Ground in Herb Stratum: 0 0.0% Present? Yes Image: No Image: No Image: Yes Image: No Image: No Image: Yes Image: No Image:	6	0	0.0%	
8. 0 0.0% 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 9. 0 0.0% data in Remarks or on a separate sheet) 10. 0 0.0% 5 - Wetland Non-Vascular Plants ¹ 11. 100 = Total Cover 5 - Wetland Non-Vascular Plants ¹ Woody Vine Stratum (Plot size: 3m) 0 0.0% 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. 0 0.0% Hydrophytic 0 0.0% Hydrophytic 0 0.0% No O	7	0	0.0%	
9. 0 0.0% data in Remarks or on a separate sheet) 10. 0 0.0% 5 - Wetland Non-Vascular Plants 1 11. 100 = Total Cover Problematic Hydrophytic Vegetation 1 (Explain) 1. 0 0.0% 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. 0 0.0% Hydrophytic Vegetation Present? % Bare Ground in Herb Stratum: 0 0.0% Present?	8	0	0.0%	
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11. 0 0.0% 100 = Total Cover Problematic Hydrophytic Vegetation ¹ (Explain) 1. 0 0.0% 2. 0 0.0% 0 0.0% Hydrophytic Vegetation Problematic. Woody Vine Stratum (Plot size: 3m) 0 0.0% 1. 0 0.0% 2. 0 0.0% 0 0.0% Hydrophytic Vegetation Problematic. Woody Vine Stratum: 0 0 Problematic Hydrophytic Vegetation No	10	0	0.0%	
Woody Vine Stratum (Plot size: 3m) 0 0.0% 1 1. 0 0.0% 0 2. 0 0.0% 0 % Bare Ground in Herb Stratum: 0 0 0 0	11	0	0.0%	
1. 0 0.0% be present, unless disturbed or problematic. 2. 0 0.0% Hydrophytic 0 = Total Cover Vegetation Present? % Bare Ground in Herb Stratum: 0 - -		100	= Total Cover	Problematic Hydrophytic Vegetation ⁺ (Explain)
2. 0 0.0% Hydrophytic 0 = Total Cover Vegetation Present? % Bare Ground in Herb Stratum: 0 - -		0	0.0%	
0 = Total Cover Vegetation Present? Yes No				Hydrophytic
% Bare Ground in Herb Stratum:	۷.			Vegetation
	% Bare Ground in Herb Stratum: o			
Remarks:				1
	Remarks:			

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SP1
Point:
npling

Hydric Soil Present? Yes 🕖 No 🖲
A all that apply) Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Drainage Patterns (B10) Salt Crust (B11) Drainage Patterns (B10) Aq. and 4B) Secondary Indicators (minimum of two requires (B13) Hydrogen Suffice Odor (C1) Dry Season Water Table (C2) Hydrogen Suffice Odor (C1) Dry Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Bernation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) Shallow Aquitard (D3) Presence of Reduced Iron (C4) FAC-neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Recent Iron Reduction in Tilled Soils (C6) Other (Explain in Remarks) Frost Heave Hummocks (D7)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
 2 cm Muck (A10) Red Parent Material (TF2) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Version 2.0

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Hiram Avenue	City/County: Oregon City/Cla	ckamas	Sampling Date: 04-0	Dec-15
Applicant/Owner: Mark Shaw		State: OR	Sampling Point:	SP2
Investigator(s): Tom Dee	Section, Township, Range	e: s _2ST_2	R_28	
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, conv	vex, none): flat	Slope:	0.5 % / 0.3 °
Subregion (LRR): A Lat.:	45.369621 Lo	ong.: -122.578448	Datur	m: NAD83
Soil Map Unit Name: Woodburn silt loam, 3-8% slopes		NWI classi	fication: <u>R3</u>	
Are climatic/hydrologic conditions on the site typical for this time of ye Are Vegetation, Soil, or Hydrology significant		(If no, explain in al Circumstances" p	·	No O
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 naturally p	problematic? (If needed	d, explain any answe	ers in Remarks.)	

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● No ○ Yes ● No ○ Yes ● No ○	Is the Sampled Area within a Wetland? Yes No
Domarka		

Remarks:

VEGETATION - Use scientific names of plan	nts.	Dominant _Species?	
		Rel.Strat. Indicat	
Tree Stratum (Plot size: 5m)	% Cover		Number of Dominant Species
1		0.0%	That are OBL, FACW, or FAC: (A)
2		0.0%	Total Number of Dominant
3	0	0.0%	_ Species Across All Strata: (B)
4	0	0.0%	
	0	= Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 3m)			· · ·
1		0.0%	Prevalence Index worksheet:
2	0	0.0%	Total % Cover of: Multiply by:
3	0	0.0%	OBL species x 1 =
4	0	0.0%	FACW species <u>100</u> x 2 = <u>200</u>
5	0	0.0%	- FAC species $0 \times 3 = 0$
	0	= Total Cover	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size: 1m)			UPL species $0 \times 5 = 0$
1. Phalaris arundinacea	100	▼ 100.0% FACW	Column Totals: <u>100</u> (A) <u>200</u> (B)
2		0.0%	
3	0	0.0%	Prevalence Index = B/A =2.000
4	0	0.0%	Hydrophytic Vegetation Indicators:
5	0	0.0%	 I - Rapid Test for Hydrologic Vegetation
6	0	0.0%	$\checkmark 2 - \text{Dominance Test is } 50\%$
7	0	0.0%	
8	0	0.0%	\blacksquare 3 - Prevalence Index is ≤3.0 ¹
9	0	0.0%	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
10	0	0.0%	
11		0.0%	5 - Wetland Non-Vascular Plants ¹
	100	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: <u>3m</u>) 1	0	0.0%	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0.0%	
2	0	= Total Cover	Vegetation Present? Yes No
% Bare Ground in Herb Stratum: 0			
Remarks:			

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Deptn "	Depth Matrix Redox Features								
(inches)	Color (n	noist)	%	Color (mois	t) <u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-20	10YR	5/1	90%	10YR 5	5/8 10%	C	M	Silt Loam	
	; ;				 	·			
lydric Soil Ir	dicators:			RRs, unless oth	erwise noted.		 rains ²Loc	cation: PL=Pore Lining. M=Mat	
Histosol (A Histic Epipe Black Histic	edon (A2)			Stripped	edox (S5) Matrix (S6) Aucky Mineral (F Gleyed Matrix (F		in MLRA 1)	2 cm Muck (A10) Red Parent Material (Other (Explain in Ren	,
Depleted B Thick Dark Sandy Muc	sunde (A4) Selow Dark S Surface (A1 k Mineral (S ved Matrix (S	2) 1)	11)	Depleted Redox D Depleted	d Matrix (F3) ark Surface (F6 d Dark Surface (epressions (F8))		³ Indicators of hydrophytic v wetland hydrology must unless disturbed or prob	be present,
Restrictive La Type: Depth (inch		ent):						Hydric Soil Present?	Yes 💿 No 🔿

Hydrology

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; che	eck all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	✓ Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Oxidized Rhizospheres on Living Roots (C3)	Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)		
Field Observations:		
Surface Water Present? Yes No	Depth (inches): 2	
Water Table Present? Yes No	Depth (inches): 0	
Saturation Present? (includes capillary fringe) Yes • No	Depth (inches): 0	/drology Present? Yes 🖲 No 🔾
Describe Recorded Data (stream gauge, monitor w	ell, aerial photos, previous inspections), if availa	able:
Remarks:		

Appendix C

Photos





Photopoint 1. Fergusson Creek looking east



Photopoint 2. Sample Points 1 and 2 looking north





Photopoint 3. Fergusson Creek looking west



Photopoint 4. Fergusson Creek looking east





Turnstone Responses to DEA Comment Letter (dated February 26, 2016)

General

17.49.[0]40 - NROD permit.

The applicant is requesting an adjustment of standards, as the applicant proposes to reduce the required 25-foot vegetative corridor, therefore the application is processed as a Type III.

Development Standards

17.49.100 – General Development Standards

In response to this provision, Section 4 of the NROD Report for the Shaw Property prepared by Turnstone Environmental Consultants, Inc., dated December 2015 ("NROD Report"), states: "The applicant's proposal shall meet the standards presented in this section." However, the Report does not provide any evidence that the application meets the standards, and does not address any of the standards specifically. For example, are any grading (D), fence (G), or lighting (H) proposed? Neither the Report narrative nor the figures in Appendix A indicate.

General development standards have been addressed in the updated NROD report.

17.49.110 - Width of vegetated corridor

The applicant needs to show Fergusson Creek and the required and proposed vegetated corridor, to scale, on a site plan.

Figure 7 shows Fergusson Creek (top of bank), to scale, and the existing 50' Vegetated Corridor.

17.49.120 – Maximum disturbance allowance for highly constrained lots of record

The applicant needs to show, to scale, on a site plan, that the proposal will not exceed the maximum of 1,500 square feet of disturbance, in order to verify this.

I have provided "Proposed Conditions Plan" showing the total proposed disturbance area is less than 1500 square feet. Updated NROD report references Figure 7: Proposed Site Plan.

17.49.140 – Standards for utility lines

The applicant needs to show the proposed location of connections, width of disturbance, and tree removal (if any) on a site plan in order to verify that connections will have no impacts.

I have provided "Proposed Conditions Plan" showing the utility trench. I am proposing to run sanitary sewer, gas, and water in the same trench, to minimize disturbance. I will be able to maintain all required separation between utilities. Power will be run overhead. Updated NROD report references Figure 7: Proposed Site Plan.

17.49.150 – Standards for vehicular or pedestrian paths and roads

The applicant needs to show the proposed driveway and associated excavation/fill relative to the OHW line and stream bank on a site plan in order to verify the applicant's statement of no impact.

Updated NROD report references Figure 7: Proposed Site Plan.

17.49.190 – Alternative mitigation standards

The applicant needs to show the existing corridor area and the proposed disturbance area in order to verify that the mitigation is at a 2:1 ratio.

Updated NROD report references Figure 7: Proposed Site Plan.

17.49.200 – Adjustment from standards

The applicant needs to provide evidence that the application meets the standards, and needs to address the standards A through F specifically, in order to verify the NROD Report statement that the application proposal meets the standards.

The updated NROD report provides evidence that the application meets the standards.

Application Requirements

17.49.210 - Type II development permit application.

Unless otherwise directed by the NROD standards, proposed development within the NROD shall be processed as a Type II development permit application. All applications shall include the items required for a complete application by Sections 17.49.220—17.49.230, and Section 17.50.080 of the Oregon City Municipal Code as well as a discussion of how the proposal meets all of the applicable NROD development standards 17.49.100—17.49.170.

Responses are provided in the NROD Report. However, the responses do not include evidence to verify the applicant's statements of compliance with standards and criteria.

17.49.220 - Required site plans.

Site plans showing the following required items shall be part of the application:

A. For the entire subject property (NROD and non-NROD areas):

1. The NROD district boundary. This may be scaled in relation to property liens from the NROD Map;

The NROD boundary is shown on the map provided by the City, created on 2/10/2016. Lot 4 is entirely within the NROD boundary.

2. One hundred-year floodplain and floodway boundary (if determined by FEMA);

Neither the NROD Report narrative nor the figures in Appendix A show or mention the one hundred-year floodplain. The applicant needs to show the floodplain in relation to the subject property or to verify that the property is not within the floodplain.

The property is not mapped within the 100-year floodplain. This is mentioned in the comments for 17.49.100 - General development standards in the updated NROD report. There is no floodplain present that would be mapped.

3. Creeks and other waterbodies;

The Fergusson Creek is discussed in the NROD Report, but not shown on the figures in Appendix A. "Stream" is labeled on the hand-drawn existing conditions, proposed conditions, and plot plan that were submitted for the pre-application conference, but not shown. The top of bank is shown as 3 feet from the boundary of Lot 4. The applicant needs to provide a plan that shows the stream top of bank (and whether it is uniformly 3 feet from) relative to the property line.

The Ordinary High Water Line of Fergusson Creek is depicted in Figure 3. Figure 6 depicts the Top of Bank. It is not uniformly 3 feet from the property line.

4. Any wetlands, with the boundary of the wetland that will be adjacent to the proposed development determined in a wetlands delineation report prepared by a professional wetland specialist and following the Oregon Division of State Lands wetlands delineation procedures;

The NROD Report shows the wetlands on Appendix A, Figure 3, Wetland Delineation Map and includes the delineation forms in Appendix B.

5. Topography shown by contour lines of two or one foot intervals for slopes less than fifteen percent and by ten-foot intervals for slopes fifteen percent or greater;

Topography is shown on the map provided by the City, created on 2/10/2016.

6. Existing improvements such as structures or buildings, utility lines, fences, driveways, parking areas, etc.

Neither the hand-drawn Existing Conditions plan provided for the pre-application conference nor the figures in Appendix A of the NROD report show utility lines or fences. The NROD Report, in Section 5.1, mentions that a fence would be removed. The applicant needs to show the fence on a site plan.

Please see the Figure 6 of the updated NROD report.

7. Extent of the required Vegetated Corridor required by Table 17.49.110

The required vegetated corridor is not shown. The NROD Report states the required width as 50 feet, as the NROD Report lists Fergusson Creek as "all other protected waters" in Table 17.49.110 and the lot as having a less than 25 percent slope. The proposed 17.53-foot vegetated corridor is shown on the hand-drawn proposed conditions plan and plot plan submitted for the pre-application conference. The vegetated corridor is shown as a uniform distance from the lot line, but it is not clear whether Fergusson Creek runs absolutely parallel to the lot line.

Please see the Figure 6 of the updated NROD report.

B. Within the NROD area of the subject property: (Please note that since Lot 4 is entirely within the NROD, this section B applies to the entire proposal.)

1. The distribution outline of shrubs and ground covers, with a list of most abundant species;

No plan shows existing shrubs and ground covers, nor lists abundant species. Section 5.2 of the NROD Report mentions the percentage of shrub and herbaceous cover. However, the applicant needs to list species and show distribution on Lot 4.

Please see the Figure 6 of the updated NROD report.

2. Trees six inches or greater in diameter, identified by species. When trees are located in clusters they may be described by the approximate number of trees, the diameter range, and a listing of dominant species;

No plan shows existing trees, nor lists species. Section 5.2 of the NROD Report mentions the percentage of tree cover. However, the applicant needs to list species and size and show distribution on Lot 4.

Please see the Figure 6 of the updated NROD report.

3. An outline of the disturbance area that identifies the vegetation that will be removed. All trees to be removed with a diameter of six inches or greater shall be specifically identified as to number, trunk diameters and species;

No outline of disturbance area is shown. Section 5.1 of the NROD Report states: "Invasive plant species will be removed from the mitigation area and native species will be planted." However, the applicant needs to show the removal area on a site plan. It is not clear if any trees will be removed. The applicant needs to specify whether any tree removal is proposed, and if so, show the number, species, and diameter.

Please see the Figure 6 of the updated NROD report. The entire mitigation area is dominated by invasive herbaceous plants that will be replaced with natives over the course of the monitoring period.

4. If grading will occur within the NROD, a grading plan showing the proposed alteration of the ground at two foot vertical contours in areas of slopes less than fifteen percent and at five foot vertical contours of slopes fifteen percent or greater.

No plan shows proposed contours or areas of grading. It is unclear whether grading is proposed. The applicant needs to state whether grading is proposed, and if it is, provide a grading plan.

Please see the Figure 8 of the updated NROD report.

- *C.* A construction management plan including:
- 1. Location of site access and egress that construction equipment will use;
- 2. Equipment and material staging and stockpile areas;
- 3. Erosion control measures that conform to City of Oregon City erosion control standards;
- 4. Measures to protect trees and other vegetation located outside the disturbance area.

A construction management plan is not included. None of the plans included in Appendix A show access/egress, staging areas, erosion control measures, or tree protection. The NROD Report does not describe any of these. The applicant needs to provide these.

Please see the Figure 9 of the updated NROD report.

D. A mitigation site plan demonstrating compliance with Section 17.49.180 or 17.49.190, including:

1. Dams, weirs or other in-water features;

The applicant does not propose any of these features.

2. Distribution, species composition, and percent cover of ground covers to be planted or seeded;

Section 5.4, Planting Plan of the NROD Report lists species and quantities of proposed ground covers. However, Figure 4, Mitigation Plan, does not specifically show distribution of the plantings—it only shows Area A and Area B. The applicant needs to provide a planting plan that shows the distribution of ground cover plantings.

Small-fruited bulrush have been added to Figure 4.

3. Distribution, species composition, size, and spacing of shrubs to be planted;

Section 5.4, Planting Plan of the NROD Report lists species and quantities of proposed shrubs. However, Figure 4, Mitigation Plan, does not specifically show distribution of the plantings—it only shows Area A and Area B. The applicant needs to provide a planting plan that shows the distribution of shrub plantings.

Shrubs have been added to Figure 4.

4. Location, species and size of each tree to be planted;

Section 5.4, Planting Plan of the NROD Report lists species and quantities of proposed shrubs. However, Figure 4, Mitigation Plan, does not specifically show distribution or spacing of the plantings—it only shows Area A and Area B. The applicant needs to provide a planting plan that shows the distribution of tree plantings.

Trees have been added to Figure 4.

5. Stormwater management features, including retention, infiltration, detention, discharges and outfalls;

The applicant does not propose any stormwater management features for the proposed project.

6. Water bodies or wetlands to be created, including depth;

The applicant does not propose to create any water bodies or wetlands.

7. Water sources to be used for irrigation of plantings or for a water source for a proposed wetland.

Section 5.5, Irrigation, describes the water source.

17.49.230 - Mitigation plan report.

A. Written responses to each applicable Mitigation Standard [Section] 17.49.180 or 17.49.190 indicating how the proposed development complies with the mitigation standards;

The applicant needs to show the existing corridor area and the proposed disturbance area in order to verify that the mitigation is at a 2:1 ratio.

Please see the Figures 6 and 7 of the updated NROD report.

B. The resources and functional values to be restored, created, or enhanced through the mitigation plan

Tables 1 and 2 in Section 5.3 of the NROD Report provide assessments of Fergusson Creek and the vegetated corridor. However, the applicant needs to provide a discussion on restoration and enhancement and how the planting plan will accomplish restoration and enhancement.

Section 5.1 describes the mitigation proposal. Removing invasives/planting natives is the only project element and it can therefore be assumed that the functional lift illustrated in Tables 1 and 2 is derived from removing invasives and planting natives.

C. Documentation of coordination with appropriate local, regional, state and federal regulatory/resource agencies such as the Oregon Department of State Lands (DSL) and the United States Army Corps of Engineers (USACE);

Section 5.13 of the NROD Report includes information regarding DSL and USACE coordination.

D. Construction timetables;

Section 5.1 of the NROD Report includes the anticipated construction timing.

E. Monitoring and Maintenance practices pursuant to Section 17.49.230.F and a contingency plan for undertaking remedial actions that might be needed to correct unsuccessful mitigation actions during the first five years of the mitigation area establishment.

Sections 5.6 to 5.11 of the NROD Report describe monitoring, maintenance, and contingency.



Responses to Planting Comments

Make sure that the map is to scale. The base map is a tax lot map with a bar scale (feet), but text notes that spatial accuracy (meter) is unknown. Besides this contradiction, plant quantities cannot be mapped on a plan with unknown area.

The area is known and the map is to scale. The county tax lot layers do not provide an accuracy statement, so we can't give one with any confidence. The lot scales off correctly and the areas are known.

Clarify the wet conditions of the planting areas with a note. The planting plan indicates that Area A is wetter than Area B. Is there open water? A delineated wetland? A seep? A roof drain diversion?

Read Section 5.4 of the mitigation plan. "The mitigation site has been divided into two planting areas based on hydrologic regime (*Figure 4*). Planting Area A is located below the top of bank of Fergusson Creek and extends to the southern property boundary. Planting Area A receives extensive hydrology and the plants have been specified accordingly. Planting Area B is located in the upland portion of the mitigation area. The plant species proposed in this area prefer moist to dry conditions.

Add symbols to the figures and their legends as follows:

- Trees with each species as a separate symbol.
- Shrubs represented in a hatch pattern with a line in the plant schedule describing the plant spacing.
- The live stakes in a hatch pattern
- The bulrush in a separate hatch pattern.
- *Re-evaluate the location of the bulrush. It requires saturated conditions, wetter than the wetland "shrubs".*

Symbols have been added to the planting plan. It should be acceptable to depict planting sections. The bulrush will be located on the margins of the creek and will have plenty of hydrology to "thrive".

Add notes in the plant schedule that describe plant spacing.

Spacing notes have been added to the planting plan in Table 3 of the NROD report.

Re-evaluate the Pacific willow live stake. It is listed under shrubs, but it grows to 60' in height and has a sprawling growth habit. This exceeds the definition of a shrub.

Pacific willow has been added to the tree category in Table 3. There are trees proposed that may exceed 250' in height.

Either add a note to explain that shrubs would be randomly intermixed, which would describe the plant distribution, or, preferably, group the shrubs by size at maturity and put those closest to the proposed

building footprint and taller plants farther from the building footprint and leave gaps in the planting (hatch patterns) to allow for views and circulation.

We have added map symbols to Figure 4.

A significant area of "B" planting is proposed in the Fredrick Street right-of-way. Is this correct?

That is correct. The city said it was okay.



221 Molalla Ave. Suite 200 | Oregon City OR 97045 Ph (503) 722-3789 | Fax (503) 722-3880

NOTICE OF PUBLIC HEARING (TYPE III PLANNING COMMISSION DECISION)

Mailed on: April 18th, 2016

COMMENT DEADLINE:	On Monday, May 9 th , 2016, the City of Oregon City Planning Commission will conduct a public hearing at 7:00 p.m. in the Commission Chambers at City Hall, 615 Center Street, Oregon City 97045 on the following Type III application. Any interested party may testify at the public hearing or submit written testimony at or prior to the close of the City Commission hearing.
FILE NUMBER:	NR 16-01: Natural Resource Overlay District
APPLICANT / OWNER:	Mark Shaw, 16341 Hiram Avenue, Oregon City, OR 97045
PROPOSAL:	The applicant proposes to construct a single-family residence on a highly constrained lot of record within the Natural Resources Overlay District. The total impervious surface and encroachment into the Vegetated Corridor created by the proposed development would be 1,500 sq. ft. with a setback of less than 25' from the delineated resource. The application requires a Type III review.
LOCATION:	16348 Frederick St, Oregon City, OR 97045
(See Map Other	Clackamas County APN 2-2E-28BC-04001
Side)	
WEBPAGE:	http://www.orcity.org/planning/landusecase/nr-16-01
CONTACT	Peter Walter AICP, Associate Planner (503) 496-1568
PERSON:	Email: <u>pwalter@orcity.org</u>
NEIGHBORHOOD:	Park Place Neighborhood Association
CRITERIA:	Natural Resource Overlay District in Chapter 17.49, Administration and Procedures in Chapter 17.50, "R-6" Single Family Dwelling District in Chapter 17.12. The City Code Book is available on-line at <u>www.orcity.org</u> .

This application and all documents and evidence submitted by or on behalf of the applicant are available for inspection at no cost at the Oregon City Planning Division, 221 Molalla Avenue, Suite 200 from 8:30 AM - 3:30 PM, Monday – Friday. The staff report, with all the applicable approval criteria, will also be available for inspection seven days prior to the hearing. Copies of these materials may be obtained for a reasonable cost in advance. Any interested party may testify at the public hearing and/or submit written testimony at or prior to the close of the City Commission hearing. Written comments must be received by close of business at City Hall 10 days before the scheduled hearing to be included in the staff report. Written comments received within 10 days of the hearing will be provided to the Commission at the hearing. The public record will remain open until the City Commission closes the public hearing. Please be advised that any issue that is intended to provide a basis for appeal must be raised before the close of the City Commission and the parties an opportunity to respond to the issue. Failure to raise an issue with sufficient specificity will preclude any appeal on that issue. Parties with standing may appeal the decision of the City Commission to the Land Use Board of Appeals. Any appeal will be based on the record. The procedures that govern the hearing will be posted at the hearing and are found in OCMC Chapter 17.50 and ORS 197.763.

A city-recognized neighborhood association requesting an appeal fee waiver must officially approve the request through a vote of its general membership or board at a duly announced meeting prior to the filing of an appeal pursuant to OCMC 17.50.190(C)(5) to and 17.50.290(C).



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AFFIDAVIT OF PUBLICATION

State of Oregon, County of Clackamas, SS I, Charlotte Allsop, being the first duly sworn, depose and say that I am Accounting Manager of Clackamas Review/Oregon City News and Estacada News, a newspaper of general circulation, published at Clackamas, in the aforesaid county and state, as defined by ORS 193.010 and 193.020, that

City of Oregon City Notice of Public Hearing - NR16-01 CLK13591

a copy of which is hereto annexed, was published in the entire issue of said newspaper for 1

week in the following issue: April 13, 2016

Charloth allosp

Charlotte Allsop (Accounting Manager)

Subscribed and sworn to before me this April 13, 2016.

17018 NOTARY PUBLIC FOR OREGON

PO: PETE WALTER

Acct #500291 Attn: Pete Walter City of Oregon City PO Box 3040 Oregon City, OR 97045-0304

Size: 2 x 6.25" Amount Due: \$148.12* *Please remit to address above.



NOTICE OF PUBLIC HEARING

COMMENT DEADLINE: On Monday, March 9th, 2016, the City of Oregon City Planning Commission will conduct a public hearing at 7:00 p.m. in the Commission Chambers at City Hall, 615 Center Street, Oregon City 97045 on the following Type III applications. Any interested party may testify at the public hearings or submit written testimony at or prior to the close of the City Commission hearing. FILE NUMBER: NR 16-01 (Type III Review) OWNER/APPLICANT: Mark Shaw, 16341 Hiram Avenue, Oregon City, OR 97045

OR 97045 PROPOSAL: The applicant proposes to construct a single-family residence on a highly constrained lot of record within the Natural Resources Overlay District. The total impervious surface and encroachment into the Vegetated Corridor created by the proposed development would be 1,500 sq. ft. with a setback of less than 25' from the delineated resource. The application requires a Type III review. LOCATION: 16348 Frederick St, Oregon City, OR 97045, Clackamas County APN 2-2F-288C-04001

County APN 2-2E-28BC-04001 PLANNER: Peter Walte Peter Walter AICP, Planner (503) 496-1568, Email: pwalter@orcity.org NEIGHBORHOOD: Park Place Neighborhood Association

CRITERIA: Natural Resource Overlay District in Chapter 17.49, Administration and Procedures in Chapter 17.50, "R-6" Single Family Dwelling District in Chapter 17.12. The City Code Book is available

on-line at www.orcity.org. This application and all documents and evidence submitted by or on behalf of the applicant are available for inspection at no cost at the Oregon City Planning Division, 221 Molalla Avenue, Suite 200 from 8:30 AM - 3:30 PM, Monday – Friday. The staff report, with all the applicable approval criteria, will also be available for inspection seven 8.30 AM - 3.30 FM, Monday - Finaly, the staff report, with an the applicable approval criteria, will also be available for inspection seven days prior to the hearing. Copies of these materials may be obtained for a reasonable cost in advance. Any interested party may testify at the public hearing and/or submit written testimony at or prior to the close of the Planning Commission hearing. Written comments must be received by close of business at City Hall 10 days before the scheduled hearing to be included in the staff report. Written comments received within 10 days of the hearing will be provided to the Planning Commission at the hearing. The public record will remain open until the Planning Commission closes the public hearing. Please be advised that any issue that is intended to provide a basis for appeal must be raised before the close of the Planning Commission hearing. In person or by letter, with sufficient specificity to afford the Planning Commission and the parties an opportunity to respond to the issue. Failure to raise an issue with sufficient specificity will preclude any appeal on that issue. The decision of the planning commission or historic review board is appealable to the city commission decision on appeal is the city's final decision and is subject to review by LUBA within twenty-one days of when it becomes final, unless otherwise provided by state law. The procedures that govern the unless otherwise provided by state law. The procedures that govern the hearing will be posted at the hearing and are found in OCMC Chapter 17.50 and ORS 197.763.

A city-recognized neighborhood association requesting an appeal fee waiver must officially approve the request through a vote of its general membership or board at a duly announced meeting prior to the filing of an appeal pursuant to OCMC 17.50.190(C)(5) to and 17.50.290(C). Publish 04/13/2016. CLK13591



Map created 2/10/2016



Community Development - Planning

221 Molalla Ave. Suite 200 | Oregon City OR 97045 Ph (503) 722-3789 | Fax (503) 722-3880

AFFIDAVIT OF POSTING OF NOTICE FOR LAND USE APPLICATIONS

APPLICANT: Mark Shaw LOCATION: 16348 Frederick St, Oregon City, OR 97045 Clackamas County APN 2-2E-28BC-04001 FILE NO: NR 16-01: Natural Resources Overlay District Review

HEARING DATE: May 9, 2016

A land use action requires the posting of public notice signs that provide a brief description of the application submitted. It is your responsibility to post the signs, which may be obtained at the Oregon City Department of Community Development. Failure to post the signs by the date specified will result in the automatic extension of the public comment period.

The signs shall be posted by April 18, 2016, and should be removed after the close of the public hearing.

The signs shall be mounted on a sturdy backing (such as plywood), and posted within 10 to 15 feet of the street so that they are clearly visible. The signs shall not be posted on trees or utility poles. If the weather is wet please cover the signs with clear plastic, or other clear weatherproof material.

Please contact me if you have any questions.

Peter Walter, AICP, Associate Planner (503) 496-1568 City of Oregon City - Planning Division 221 Molalla Ave., Suite 200 Oregon City, OR 97045

PLEASE SIGN AND RETURN THIS NOTICE TO THE PLANNING DIVISION

I hereby certify that on (date) $\frac{04/18/16}{0}$, I posted the required Notices on the subject site. I understand that the failure to post the notices as required will result in the automatic postponement of the hearing date.

HUMBERLY Celley 04/18/16 Applicant Date Date

AGRIPINA SANTOS 16396 FRONT AVE OREGON CITY, OR 97045

AMANDA LYNN AILES 16387 HIRAM AVE OREGON CITY, OR 97045

ANDREW D & MADISON N SHAW 16382 FREDERICK ST OREGON CITY, OR 97045

BRAD W LAWRENCE 16401 HIRAM AVE OREGON CITY, OR 97045

BRANDON L & APRIL ECKERT 16324 FRONT AVE OREGON CITY, OR 97045

BRENT L & MIA R HOPPE 16356 FREDERICK ST OREGON CITY, OR 97045

BRUCE E ROBINSON 16353 FRONT AVE OREGON CITY, OR 97045

CHRISTOPHER A SCHNEIDER 16378 FRONT AVE OREGON CITY, OR 97045

CLIFFORD W & MARILYN PHARES 16346 FRONT AVE OREGON CITY, OR 97045

CRESS & PAULETTE MERRILL 16390 HIRAM AVE OREGON CITY, OR 97045 DAVID KLEIN 16333 FRONT AVE OREGON CITY, OR 97045

DONALD E & PENNIE D BIXLER 16367 HIRAM AVE OREGON CITY, OR 97045

ERIC ECCLES 16327 FRONT AVE OREGON CITY, OR 97045

ERIC I & LYNN E SUNDQUIST 16336 FRONT AVE OREGON CITY, OR 97045

GUY H & STEPHANIE S JONES 19270 S FISCHERS MILL RD OREGON CITY, OR 97045

GUY H JONES 19270 S FISCHERS MILL RD OREGON CITY, OR 97045

HANK C KELLEY 14588 S HENRICI RD OREGON CITY, OR 97045

HOLSCHU FLOYD G TRUSTEE 16276 HIRAM AVE OREGON CITY, OR 97045

IOANE SOLAITA 16285 FRONT AVE OREGON CITY, OR 97045

JAMES MESSNER 16362 HIRAM AVE OREGON CITY, OR 97045 JANE CAMPBELL 16298 FREDERICK ST OREGON CITY, OR 97045

JEANNINE L MAY 16322 HIRAM AVE OREGON CITY, OR 97045

JEFFREY J & STEPHANI LYNN 16308 HIRAM AVE OREGON CITY, OR 97045

JESUS REYES VACA 16300 FRONT AVE OREGON CITY, OR 97045

JOHN GUSH 16316 HIRAM AVE OREGON CITY, OR 97045

JOHN P & MELINDA S RESPINI 16373 FRONT AVE OREGON CITY, OR 97045

JONATHAN A NEWMAN 16286 FRONT AVE OREGON CITY, OR 97045

LYTLE MARK L TRUSTEE 16360 FREDERICK ST OREGON CITY, OR 97045

MARK SHAW 19650 S KALAL CT OREGON CITY, OR 97045

MICHAEL E & MEGAN L CARDOZA 16287 HIRAM AVE OREGON CITY, OR 97045 OSCAR E & JENNIFER M ORTIZ 16279 HIRAM AVE OREGON CITY, OR 97045

RICHARD C & PATRICIA WHITE 16317 HIRAM AVE OREGON CITY, OR 97045

RODNEY L & TERESA A PARKER 16278 FRONT AVE OREGON CITY, OR 97045

SERGEY IVANOVICH & L SMITYUKH 16312 HIRAM AVE OREGON CITY, OR 97045

STEVEN GOTTER 16297 HIRAM AVE OREGON CITY, OR 97045

TYLER W & ASHLEY D S MURDOCH 16366 FRONT AVE OREGON CITY, OR 97045

VIRGINIA GREEN 16330 HIRAM AVE OREGON CITY, OR 97045



Community Development – Planning

221 Molalla Ave. Suite 200 | Oregon City OR 97045 Ph (503) 722-3789 | Fax (503) 722-3880

LAND USE APPLICATION TRANSMITTAL

April 18, 2016

IN-HOUSE DISTRIBUTION OF APPLICATION

- □ ✓ Building Official
- Development Services Manager
- □ ✓ Public Works Operations
- □ ✓City Engineer
- □ ✓ Public Works Director
- GIS
- Parks Manager
- Addressing
- Police
- Traffic Engineer
- □ ✓City Attorney

NOTICE OF THE APPLICATION MAILED TO

- □ ✓All Properties within 300 feet
- Hamlet of Beavercreek
- □ ✓ Holcomb Outlook CPO
- □ ✓ Central Point / Leland Road / New Era CPO

MAIL-OUT DISTRIBUTION OF APPLICATION

- OREGON CITY NEIGHBORHOOD ASSOCIATIONS
 - Neighborhood Association Chairs
 - □ ✓ N.A. Chair (Park Place)
 - □ ✓ N.A. Land Use Chair (Park Place)
- Clackamas County Transportation and Planning
- □ ✓Clackamas Fire District #1
- □ ODOT Division Review
- □ School District# 62
- Tri-Met
- □ ✓ Tri-City Service District
- 🗅 🖌 Metro
- Oregon City Postmaster
- □ ✓ Clackamas River Water (CRW)
- □ ✓ DLCD / DEQ / DSL / USACE (circle)
- □ ✓ David Evans and Associates (NROD)

STAFF REPORT DUE:	May 2, 2016	
HEARING BODY:	Planning Commission	
HEARING DATE:	May 9 th , 2016	
FILE # & TYPE:	NR 16-01 (Type III)	
PLANNER:	Pete Walter, AICP, Planner (503) 496-1568	Email: <u>pwalter@orcity.org</u>
APPLICANT:	Mark Shaw	
REQUEST:	Single Family Residence within Natural Resource 0	Overlay District (NROD) w/ Planning
	Commission modification of setback from Resource	ce
ZONING:	"R-6" Single Family Residential District	
LOCATION:	16348 Frederick St, Oregon City, OR 97045, Clacka	amas County APN 2-2E-28BC-04001
WEBPAGE:	http://www.orcity.org/planning/landusecase/nr-1	<u>16-01</u>

This application material is referred to you for your information, study and official comments. If extra copies are required, please contact the Planning Department. Your recommendations and suggestions will be used to guide the Planning staff when reviewing this proposal. If you wish to have your comments considered and incorporated into the staff report, please return the attached copy of this form to facilitate the processing of this application and will insure prompt consideration of your recommendations. Please check the appropriate spaces below.

- The proposal does not conflict with our interests.
- The proposal conflicts with our interests for the reasons attached.
- The proposal would not conflict our interests if the changes noted below are included.



221 Molalla Ave. Suite 200 | Oregon City OR 97045 Ph (503) 722-3789 | Fax (503) 722-3880

PLEASE RETURN YOUR COPY OF THE APPLICATION AND MATERIAL WITH THIS FORM.

NR 16-01

Type III NROD Review for 13648 Frederick Street

Description of Property

• The 0.11-acre project area is located on tax lot 2-2E-28BC-04000. The proposed development would occur on the existing lot of record number 4.

Aerial w/ NROD



Project Description

- The applicant proposes to construct a single-family residence. The house would occupy 1,032 sq ft and the driveway, sidewalk, and rear patio would occupy 468 sq ft.
- The total impervious surface and encroachment into the Vegetated Corridor created by the proposed development would be 1,500 sq ft.

- Code permits a maximum disturbance area of 1500 sf for a pre-existing lot of record, and:
- A minimum setback of 25' from the OHW or top-of-bank
- A setback of less than 25' from the delineated resource. The application requires a Type III review.

Description of Resource

- One freshwater perennial stream was identified within the project area. The creek flows from east to west along the northern property boundary.
- This reach of "Fergusson" Creek is classified as Riverine Upper Perennial using Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al, 1979).
- According to Oregon City Municipal Code ("OCMP") Table 17.49.110, a perennial stream has a 50-foot Vegetated Corridor.

• Local Wetland Inventory

- The stream / wetland appears on the Oregon City Local Wetland Inventory and Riparian Assessment (Shapiro and Associates, Inc., 1999) as wetland PP3D.
- This wetland is not listed as locallysignificant in Table 5 of the inventory report.

Delineation





Site Plan

Mitigation

- The existing fence and railroad ties south of the creek will be removed. There will be no detrimental impact on resources or functional values in the area designated to be left undisturbed.
- The planting plan include 2 areas, the area within the OHW next to the creek Area A and Area B which is outside the OHW.
- Total SF of mitigation area proposed = 3000 sf.
- 15 trees and 50 shrubs will be planted.
- There will be no detrimental impact related to the migration, rearing, feeding, or spawning of fish caused by the development or mitigation proposal.

Mitigation Plan


Photos



Photopoint 1. Fergusson Creek looking east

Photos



Photopoint 3. Fergusson Creek looking west

Photos



Photopoint 4. Fergusson Creek looking east

Next Steps

- Public Notice will be sent out by April 15, 2016.
- David Evans and Associates is reviewing for compliance with OCMC 17.49.
- Staff Report is due March 2, 2016.
- Planning Commission public hearing on May 9, 2016.

standards APPROVED WETLANDS INVENTO: Oregon Division of State Lands L 6 4



Approved by J. Merlan Date 7/11 Meets_



WEILAND INFORMATION IS SUBJECT TO CHANGE This map is for planning purposes only. Mapped wetland and riparian boundaries were not flagged or surveyed (unless noted as a delineation study). Boundaries for on-site verified wetlands are accurate to within 25'. There may be exceptions or unmapped wetlands subject to regulation. In all cases, actual field conditions determine wetland boundaries. If site alteration work is proposed, you are advised to contact the Oregon Division of State Lands or the U.S. Army Corps of Engineers with regulatory questions. This study was funded by an Oregon Department of Land Conservation and Development periodic review planning grant

City of Oregon City

320 Warner Milne Road Oregon City, Oregon 97045

SHAPIRO

Orecon City

WetlandCode: PP-3

A. "OUT" Test

No Wetlands artificially CREATED ENTIRELY FROM UPLAND that are:

- (a) created for the purpose of controlling, storing, or maintaining stormwater;
- (b) active surface mining ponds;
- (c) ditches without free and open connection to waters of the state AND without fish;
- (d) <1 acre and unintentionally created from irrigation leak or construction activity;
- (e) of any size and created for the purpose of wastewater treatment, stock watering, settling of sediment, cooling industrial water, or as a golf course hazard.
- No Documented as being contaminated by hazardous substances, materials or wastes ("Hazmat sites").

This wetland does NOT meet the criteria for identification as a Local Significant Wetland

B. "IN"

- No Wetlands that score the highest rank for ANY of the four ecological functions addressed by OFWAM or equivalent methodology:
 - No wildlife habitat,
 - No fish habitat,
 - No water quality,
 - No hydrologic control.
- No Wetlands that (1) are rated in either the highest or second highest category for water quality (in OFWAM or equivalent) AND that (2) border a water quality-limited stream as listed by DEQ. Dedicated stormwater detention swales not included.
- <u>No</u> Contains one or more uncommon wetland plant communities including those listed in the Oregon Natural Heritage Program's CLASSIFICATION AND CATALOG OF NATIVE WETLAND PLANT COMMUNITIES IN OREGON as G1-G3 and S1-S3.
- **No** Inhabited by any species listed by the federal or state government as a sensitive, threatened or endangered species in Oregon (unless consultation with appropriate agency deems the site not important for the maintenance of the species.
- <u>No</u> Wetland is a dedicated or proposed Registered State Natural Area or Area of Critical Environmental Concern, State Natural Heritage Conservation Area, Federal Research Natural Area, or Land Trust.
- No Wetland is specifically protected as a wetland resource in a recognized federal, state or local management plan, e.g., for a park, refuge, or scenic river.
- No Wetland rates in either the highest or second highest category for Fish Habitat in OFWAM and is located adjacent to a stream segment that is mapped by ODFW as habitat for "Indigenous anadromous salmonids."
- No OPTIONAL CRITERION (at discretion of local government): Wetland represents a LOCALLY unique plant community.
- No OPTIONAL CRITERION (at discretion of local government): Wetland rates highest rank for education potential and there is documented use for educational purposes by a school or organization.

OREG	UN CITY LOCA	L WETLANDS INVEN	IIORY
	- Wetland S	ummary Sheet -	
And a second			
Date(s) of Field Verification	: 2/12/97, 6/25/97	Wetland Mapping	Code: PP-3
Investigator(s): JF/CM, DC/.	JF	Size (acres): 0.8	
Location			
Legal: T2S R2E S28,29			
Other: Between Apperson	Blvd. and Hunter Ave.		
Basin: Park Place	-		
Soils			
Mapped Series: 3, 37C, 91	В		
Hydrology			
Hydrologic Source: S	Sheet flow		
Wetland Classification(s):	PEM		
Dominant Vegetation			
Trees	Shrubs	Vines	Herbs
		Solanum dulcamara	Holcus lanatus Rumex crispus
			Veronica americana
			Epilobium watsonii
			Dipsacus sylvestris
			Phalaris arundinacea
			Equisetum arvense
			, Sonchus arvensis

This drainage ditch is a continuation of a drainage ditch located further upslope. It is very channelized and even piped beneath several residential properties. The vegetation directly along the sides of the ditch varies from ornamental to native species. It appears that many homeowners either mow the ditch or spray it with herbicide. Some portions are professionally landscaped. The majority of this ditch was viewed from roadways because access was denied by homeowners.

Comments:

Wetland Classification Codes:						
PFO = palustrine forested	PSS = palustrine scrub-shrub	RSB = riverine streambed (intermittent)				
PEM = palustrine emergent	POW = palustrine open water	RUB = riverine unconsolidated bottom				

SHAPIRO Project Number: 7971165

WETLA	ND DETERM	NATION	DATA SHEET - 1987	MANUAL	
Client/Applicant: City of Oreg	gon City	S	ite: <u>PP-3</u>	Plot:	7
T <u>2S</u> R <u>2E</u> S <u>29</u>	City: Oregon Cit	ty	County: Cla	ckamas State: OR	
Plot Location; Topography St	wale located in ba	ackyards of	several homes between A	pperson Blvd and Harley	Ave.
Project #: <u>7971165</u> De	etermined by: JF/	СМ		Date: <u>6/12/97</u>	
			DETERMINATION: IS TH	IIS PLOT IN A WETLAND	?:Yes
		[o Normal Circumstance	es exist on the site?	Yes
	Are Soils	Vegetatio	on 🗌 Hydrology 🗌 s	ignificantly disturbed?	No
VEGETATION Dominant Plan	t Species In	d.%Cover:		Ind.%	Cover:
Herb Stratum - % total cover		100	Shrub/Sapling Stratum	i - % total cover:	0
Phalaris arundinacea	FA	CW 50			
Equisetum arvense	FA	C 20			
Sonchus arvensis	FA	CU 15			
Dipsacus sylvestris	FA	C 10			
Woody Vine Stratum - % tot	al cover:		Tree Stratum - % total of	cover:	0
Solanum dulcamara	FA				
Percent of Dominant Species			(oveluding EAC) 2	of $2 - 100 \% (50/2)$	D Pulo
recent of Dominant Species			Vegetation Criterion Met		No
	Woodburn silt loa Moderately well o Fine-silty, mixed,	drained	ultic Argixerolls		
Horizon Depth Matrix Col	-	-	-	Texture, Structure,	Other
0-18"+ 2.5 Y 5/2				Silt loam	
	Aquic moisture rocing conditions		Redox features Concretions Highly organic surface lay	 Organic streaking Organic pan on hydric soils list 	
			Soil Criterion Met?		No
HYDROLOGY			· · · · · · · · · · · · · · · · · · ·		
Depth of inundation N/A	Depth	to water tab	le: >18" De	pth to saturation: >18"	
Primary Indicators:			or more required):	· · · · · · · · · · · · · · · · · · ·	
 Inundated Saturated in upper 12" Water marks Drift lines Sediment deposits ✓ Drainage patterns 	 Oxidized rh Water-stain Recorded d Explain: ✓ Other 	izospheres ed leaves ata (aerials,	☐ Local soil surve ☐ FAC-Neutral te groundwater data) dplain of small drainage.		
Remarks: Plot located near na	arrow (1-2 ft. wid	e) flowing s	stream.		
			Hydrology Criterion Mel	17	Yes

Client/Applicant: <u>City of Oregon City</u> Site: <u>PP-3</u> Plot: <u>8</u> T <u>2S</u> R <u>2E</u> <u>5</u> <u>28</u> City: <u>Oregon City</u> County: <u>Clackamas</u> State: <u>OR</u> Plot Location; Topography <u>Along stream midway between Hiram and Hunter Avenues</u> . Project #: <u>7971165</u> Determined by: <u>DC/JF</u> Date: <u>6/25/97</u> DETERMINATION::IS THIS PLOT IN A WETLAND?: Yes Do Normal Circumstances exist on the site? Yes <u>Are Soils</u> Vegetation <u>Hydrology</u> significantly disturbed? No <u>VEGETATION</u> Dominant Plant Species Ind. %Cover: <u>Ind. %Cover</u> : <u>10</u> <u>Shrub/Sapling Stratum</u> - % total cover: <u>0</u> <i>Holcus lanatus</i> <u>FAC</u> <u>30</u> <i>Dipsacus sylvestris</i> <u>FAC</u> <u>20</u> <i>Rumex crispus</i> <u>FAC</u> <u>20</u> <i>Rumex crispus</i> <u>FAC</u> <u>20</u> <i>Epilobium watsonii</i> <u>FAC</u> <u>100</u> Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) <u>4</u> of <u>4</u> = <u>100</u> % (50/20 Rule) <u>Vegetation Criterion Met?</u> <u>Yes</u> <u>SOILS</u> Mapped Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained. Taxonomy: Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Horizon Depth Matrix Color <u>Redox Abundance, Size, Color</u> <u>Texture, Structure, Other</u> <u>0</u> <u>Sandy loam, rock, gravel</u>
Project #: 7971165 Along stream midway between Hiram and Hunter Avenues. Project #: 7971165 Determined by: DC/JF Date: 6/25/97 DETERMINATION::IS THIS PLOT IN A WETLAND?: Yes Do Normal Circumstances exist on the site? Yes Are Soils Vegetation Hydrology significantly disturbed? No VEGETATION Dominant Plant Species Ind. %Cover: Ind. %Cover: Ind. %Cover: 0 Herb Stratum - % total cover: 90 Shrub/Sapling Stratum - % total cover: 0 Holcus lanatus FAC 30 20 Dipsacus sylvestris FAC 20 Rumex crispus FAC+ 20 Woody Vine Stratum - % total cover: 10 Tree Stratum - % total cover: 0 Woody Vine Stratum - % total cover: 10 Tree Stratum - % total cover: 0 Precent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4 of 4 = 100 % (50/20 Rule) Vegetation Criterion Met? Yes SOILS Mapped Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained. Taxonomy: Fine-silty, mixed, mesic Argiaquic Xeric Argialboll
Project #: <u>7971165</u> Determined by: <u>DC/JF</u> Date: <u>6/25/97</u> DETERMINATION: 15 THIS PLOT IN A WETLAND?: Yes Do Normal Circumstances exist on the site? Yes Are Soils Vegetation Hydrology significantly disturbed? No VesEnt Solis Vegetation Hydrology significantly disturbed? No Vesent Solis Vegetation Hydrology significantly disturbed? No Medeetation Hydrology significantly disturbed? No Medeetation Hydrology significantly disturbed? No Medeetation Hydrology significantly disturbed? No Vegetation Hydrology significantly disturbed? No Medeetation Hydrology significantly disturbed? No Medeetation Medical cover: 90 Shrub/Sapling Stratum - % total cover: 0 Weody Vine Stratum - % total cover: 10 Tree Stratum - % total cover: 0 1 Weody Vine Stratum - % total cover: 10 Tree Stratum - % total cover: 0 4 100 % (50/20 Rule) <th< td=""></th<>
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Herb Stratum - % total cover: 90 Shrub/Sapling Stratum - % total cover: 0 Holcus lanatus FAC 30 FAC 20 Dipsacus sylvestris FAC 20 Rumex crispus FAC+ 20 Veronica americana OBL 20 Pepilobium watsonii FACW 10 Moody Vine Stratum - % total cover: 10 Tree Stratum - % total cover: 0 Rubus discolor FACU 100 Tree Stratum - % total cover: 0 Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4 of 4 = 100 % (50/20 Rule) Vegetation Criterion Met? Yes SOILS Mapped Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained. Taxonomy: Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Horizon Depth Matrix Color Redox Abundance, Size, Color Texture, Structure, Other Sandy loam, rock, gravel
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Rumex crispus FAC+ 20 Veronica americana OBL 20 Epilobium watsonii FACW 10 Woody Vine Stratum - % total cover: 10 Tree Stratum - % total cover: 0 Rubus discolor FACU 100 Tree Stratum - % total cover: 0 Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4 of 4 = 100 % (50/20 Rule) Vegetation Criterion Met? Yes SOILS Mapped Unit Name: Amity silt loam Vegetation Criterion Met? Yes SOILS Mapped Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained. Taxonomy: Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Horizon Depth Matrix Color Redox Abundance, Size, Color Texture, Structure, Other 0-18"+ 10 YR 3/1 Sandy loam, rock, gravel
Veronica americana OBL 20 Epilobium watsonii FACW 10 Moody Vine Stratum - % total cover: 10 Tree Stratum - % total cover: 0 Rubus discolor FACU 100 Tree Stratum - % total cover: 0 Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4 6 4 = 100 % (50/20 Rule) Vegetation Criterion Met? Yes SOILS Mapped Unit Name: Amity silt loam Drainage Class: Taxonomy: Somewhat poorly drained. Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Texture, Structure, Other Sandy loam, rock, gravel
Woody Vine Stratum - % total cover: 10 Tree Stratum - % total cover: 0 Rubus discolor FACU 100 Tree Stratum - % total cover: 0 Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) _4 of _4 = 100 % (50/20 Rule) Vegetation Criterion Met? Yes SOILS Mapped Unit Name: Amity silt loam Vegetation Criterion Met? Yes SOILS Mapped Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained. Taxonomy: Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Texture, Structure, Other Horizon Depth Matrix Color Redox Abundance, Size, Color Texture, Structure, Other 0-18"+ 10 YR 3/1 Sandy loam, rock, gravel Sandy loam, rock, gravel
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Rubus discolor FACU 100 Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4 of 4 = 100 % (50/20 Rule) Vegetation Criterion Met? Yes SOILS Mapped Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained. Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Horizon Depth Matrix Color Redox Abundance, Size, Color Texture, Structure, Other Sandy loam, rock, gravel
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SOILS Mapped Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained. Taxonomy: Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Horizon Depth Matrix Color Redox Abundance, Size, Color Texture, Structure, Other 0-18"+ 10 YR 3/1 Sandy loam, rock, gravel
Drainage Class: Somewhat poorly drained. Taxonomy: Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Horizon Depth Matrix Color Redox Abundance, Size, Color Texture, Structure, Other 0-18"+ 10 YR 3/1 Sandy loam, rock, gravel
Taxonomy: Fine-silty, mixed, mesic Argiaquic Xeric Argialboll Horizon Depth Matrix Color Redox Abundance, Size, Color Texture, Structure, Other 0-18"+ 10 YR 3/1 Sandy loam, rock, gravel
Horizon Depth Matrix Color Redox Abundance, Size, Color Texture, Structure, Other 0-18"+ 10 YR 3/1 Sandy loam, rock, gravel
0-18"+ 10 YR 3/1 Sandy loam, rock, gravel
Histosol Drob. Aquic moisture regime 🗹 Redox features Drganic streaking
☐ Histic epipedon
Sulfidic odor Gleyed Highly organic surface layer On hydric soils list
Soil Criterion Met? Yes
HYDROLOGY
Depth of inundation <u>N/A</u> Depth to water table: <u>8"</u> Depth to saturation: <u>Surface</u>
Depth of inundation N/A Depth to water table: 8" Depth to saturation: Surface Primary Indicators: Secondary Indicators (2 or more required):
Primary Indicators: Secondary Indicators (2 or more required):
Primary Indicators: Secondary Indicators (2 or more required):
Primary Indicators: Secondary Indicators (2 or more required): Inundated Oxidized rhizospheres Local soil survey data Saturated in upper 12" Water-stained leaves FAC-Neutral test Water marks Recorded data (aerials, groundwater data)
Primary Indicators: Secondary Indicators (2 or more required): Inundated Oxidized rhizospheres Local soil survey data Saturated in upper 12" Water-stained leaves FAC-Neutral test Water marks Recorded data (aerials, groundwater data) Explain:
Primary Indicators: Secondary Indicators (2 or more required): Inundated Oxidized rhizospheres Local soil survey data Saturated in upper 12" Water-stained leaves FAC-Neutral test Water marks Recorded data (aerials, groundwater data) Explain: Sediment deposits Other
Primary Indicators: Secondary Indicators (2 or more required): Inundated Oxidized rhizospheres Local soil survey data Saturated in upper 12" Water-stained leaves FAC-Neutral test Water marks Recorded data (aerials, groundwater data) Explain:

WETLAI	ND DETERMINA	TION I	<u>DATA SHEET - 198</u>	B7 MANUAL		
Client/Applicant: City of Orego	on City	Si	ite: <u>PP-3</u>	Ple	ot:9	
T <u>2S</u> R <u>2E</u> S <u>28</u>	City: Oregon City		County: <u>C</u>	lackamas	State: OR	
Plot Location; Topography Ald	ong stream midway	between	Hiram and Hunter Av	enues.		
Project #: <u>7971165</u> Det	ermined by: <u>DC/JF</u>			Date: <u>6/2</u>	.5/97	
			DETERMINATION: IS	THIS PLOT IN A A	NETLAND?	: No
		D	o Normal Circumstan	ices exist on the	site?	Yes
	Are Soils 🗌 Ve	egetatio	n 📄 Hydrology 🗌	significantly dis	sturbed?	No
VEGETATION Dominant Plant Herb Stratum - % total cover:	Species Ind.%	Cover: 40	Shrub/Sapling Stratu	im - % tõtal čõver	Ind.%C	over: 40
Poa pratensis	FAC	40	Oemleria cerasiformis		 FACU	<u></u> 60
Vicia sativa		30	Rosa pisocarpa	·····	$-\frac{1100}{FAC}$	40
Dactylis glomerata	FACU	30				
Woody Vine Stratum - % tota	l cover:	20	Tree Stratum - % tota	al cover:		0
Rubus discolor	FACU	100				
Percent of Dominant Species th	hat are OBL, FACW,	or FAC	(excluding FAC-) 2	of <u>6</u> = <u>33</u>	3 % (50/20	Rule)
		١	Vegetation Criterion N	Net?		No
	omewhat poorly drai		aquic Xeric Argialboll			
Horizon Depth Matrix Colo				<u>Texture, S</u>	structure, O	ther
0-18"+ 10 YR 3/3	<u></u>			Silt loam		
	Aquic moisture regim ing conditions d	L C	Redox features Concretions Highly organic surface la	Organic	streaking pan c soils list	
			Soil Criterion Met?			No
HYDROLOGY						
Depth of inundation <u>N/A</u>	Depth to w	ater tabl	e: <u>>18"</u> E	Depth to saturation	n: <u>>18"</u>	
Primary Indicators:	Secondary Indica	tors (2	or more required):			
 Inundated Saturated in upper 12" Water marks Drift lines Sediment deposits Drainage patterns 	 Oxidized rhizos Water-stained le Recorded data (Explain: Other Explain: 	eaves (aerials,	☐ Local soil sui ☐ FAC-Neutral groundwater data) Hydrology Criterion M	test		No

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLGY

Date(s): 7/15/98	Investigator(s): DC/CM	
Project Name: City of Oregon City		
WetlandCode: PP-3	ProjectNumber: 7971165	

Cardena Cardena		Fisht	1 2 1 F 1 2 1 0 1 1 1		1000			2	1	
49		Stre		Lakes/Ponds		allity.	SEFCOI	trol		aci 🦗
Q1:	·C	Q1:	В	Q1:	Q1:	А	Q1:	В	Q1:	А
Q2:	С	Q2:	С	Q2:	Q2:	Α.	Q2:	А	Q2:	В
Q3:	С	Q3:	С	Q3:	Q3:	С	Q3:	С	Q3:	С
Q4:	С	Q4:	А	Q4:	Q4:	B	Q4:	В	Q4:	А
Q5:	А	Q5:	С	Q5:	Q5:	А	Q5:	С	Q5:	А
Q6:	А	Q6:	С	Q6:	Q6:	С	Q6:	A	Q6:	В
Q7:	А						Q7:	А		
Q8:	С								•	
Q9a:										
Q9b:	А									

100 Sec. 10	ncement tential	Educati	on .	Recrea	ition	and the second	thetic ality
Q1:	B	Q1:	С	Q1:	A	Q1:	C
Q2:	A	Q2:	A	Q2:	c	Q2:	C C
Q3:	C	Q3:	В	Q3:	c	Q3:	c
Q4:	Ċ	Q4:	c	Q4:	В	Q4:	В
Q5a:		Q5:	А	Q5:	В	Q5:	В
Q5b:	C.	Q6:	В	Q6:	В	Q6:	в
Q6:	В						

Wildlife Habitat:	The wetland provides habitat for some wildlife species.
Fish Habitat - Streams:	The wetland's fish habitat function is impacted or degraded.
Fish Habitat - Lakes/Ponds-	N/A
WateriQuality:	The wetland's water quality function is impacted or degraded.
Hydrologic Control:	The wetland's hydrologic control function is impacted or degraded.
Sensitivity to Impact:	The wetland is potentially sensitive to future impacts.
Enhancement Potential:	The wetland has little enhancement potential.
Education:	The wetland site is not appropriate for educational use.
Recreation:	The wetland has the potential to provide recreational opportunities.
Aesthetic Quality:	The wetland is considered to be moderately pleasing.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLGY

Function and Condition Summary Sheet for the Oregon Method

WetlandCode: PP-3		ProjectNumber: 7971165
Function	Evaluation Descriptor	Rationale
Wildlife Habitat	The wetland provides habitat for some wildlife species.	One Cowardin wetland class with 5 or fewer plant species. Emergent veg. or wet meadow. Low degree of Cowardin class interspersion. Less than 0.5 acre of unvegetated open water present. Wetland connected to another body of water by surface water. Wetland connected to other wetlands within a 3 mile radius. Upstream not listed as water quality limited. Residential/Industrial land use within 500 feet of wetland edge. More than 40% of wetland edge bordered by veg. buffer 25 or more feet wide.
Fish Habitat - Streams	The wetland's fish habitat function is impacted or degraded.	Between 50 and 75% of stream shaded by riparian vegetation. Physical character of stream channel extensively modified/piped. Stream contains less than 10% of instream structures. Upstream not listed as water quality limited. Residential/Industrial land use within 500 feet of wetland edge. No fish species present during the year.
Fish Habitat - Lakes/Ponds	N/A	
Water Quality	The wetland's water quality function is impacted or degraded.	Surface flow (including streams and ditches) is wetland's primary source of water. Evidence of flooding or ponding during part of the growing season. Low (<60%) degree of wetland vegetation cover. Between 0.5 and 5 acres of wetland connected to other wetlands within a 3 mile radius. Residential/Industrial land use within 500 feet of wetland edge. Upstream not listed as water quality limited in watershed or adjacent to the wetland.
Hydrologic Control	The wetland's hydrologic control function is impacted or degraded.	No part of wetland located within 100-year floodplain or enclosed basin. Evidence of flooding or ponding during the growing season. Area is less than 0.5 acre. Minor restrictions slow down waterflow out of the wetland. Emergent veg. or wet meadow is dominant cover type. Residential/Industrial land use within 500 ft of wetland on downstream or down-slope edge of wetland. Urban or Urbanizing land use in watershed upstream from area.
Sensitivity to Impact	The wetland is potentially sensitive to future impacts.	Stream flow or bank has been modified by human activities within 1 mile above wetland. Water is not being taken out of streams through active diking, drainage, or irrigation districts upstream. Upstream not listed as water quality limited in watershed upstream of the or adjacent to the wetland. Residential/industrial (developed) land use

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLGY

Function and Condition Summary Sheet for the Oregon Method

WetlandCode: PP-3		ProjectNumber: 7971165
Function	Evaluation Descriptor	Rationale
Founder Fore-transformation and the fore-transformed and the fore-		within 500 feet of wetland's edge. Dominant Residential/Industrial (developed) land use within 500 feet of wetland's edge. Emergent veg. only or wet meadow is the dominant cover.
Enhancement Potential	The wetland has little	Wetland has lost one or more functions or
	enhancement potential.	one or more functions is not present in assessment results for wildlife habitat, fish habitat, water quality and hydrologic control. Wetland's primary source of water is surface flow, including streams and ditches. Water flow into wetland is restricted and cannot be
	,	restored. Wetland's area is less than 0.5 acre. Less than 10% of wetland's edge is bordered by a vegetative buffer 25 or more feet wide. Wetland is potentially sensitive to future impacts.
Education	The wetland site is not appropriate for educational use.	Wetland site is not open to the public for direct access or observation. There are no visible hazards to the public at the wetland site. Provides wildlife habitat for some species, or fish habitat is impacted or degraded. There is no existing physical public access to other features, and observation of
		other features cannot be made. There is a maintained public access point within 250 feet of the wetland's edge. Access is not available for limited mobility.
Recreation	The wetland has the potential to provide recreational opportunities.	There is a maintained public access point within 250 feet of wetland's edge. Wetland not accessible by boat-no boat launch within 1 mile/ cannot develop. No existing trails and viewing areas to guide user or if created, would disrupt wildlife or plant habitat. Wetland provides habitat for some species. Fishing is not allowed at wetland or adjacent water body (or not applicable). Hunting is not allowed at the wetland.
Aesthetic Quality	The wetland is considered to be moderately pleasing.	One Cowardin class is visible from primary viewing area(s). Less than 25% of wetland is visible from viewing area(s). General appearance of wetland has visual detractors which cannot be removed easily. Visual character with surrounding area is landscaped or manipulated by people. At certain times, unpleasant odors are present at the primary viewing location. Continuous traffic and other intrusive noise and natural sounds are audible at primary viewing location.