

Appendix C

Wetland Functions and Values Forms

Wetland Functions & Values Form

Wetland I.D.: A

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine emergent

Ecology Category: 4

Local Rating: 4

Wetland size: 0.52 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | | X | Slope wetland and water is not retained during storm events as evidenced by scour marks. Dense woody vegetation not present on slope or in ditch. | | |
| Sediment Removal | | X | Some removal does occur in the ditch at the base of the slope as evidenced by sediment deposits. Dense herbaceous vegetation is present but it is actively maintained. Most (90%) of the wetland does not perform this function. Opportunity exists as wetland is adjacent to freeway. | | |
| Nutrient & Toxicant Removal | | X | Water is not detained for long periods as wetland is a slope and most (90%) of wetland does not perform this function. Some removal does occur in the ditch at the base of the slope. Opportunity exists as wetland is adjacent to freeway. | | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline as wetland drains directly to storm system. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Wetland has an outlet from which organic matter is flushed. Wetland does not likely perform this function at a high level as it lacks deciduous woody plants and diverse plant structure and interspersions. | X | |
| General Habitat Suitability | | X | Wetland is located in freeway median and lacks connectivity to other habitats. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Forested, scrub shrub, snags, and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness or heritage wetland. | | |

Wetland Functions & Values Form

Wetland I.D: B

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine emergent

Ecology Category: 2

Local Rating: 2

Wetland size: 0.33 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | | X | Slope wetland and water is not retained during storm events as evidenced by scour marks. Dense woody vegetation not present on slope or in ditch. | | |
| Sediment Removal | | X | Some removal does occur in the ditch at the base of the slope as evidenced by sediment deposits. Dense herbaceous vegetation is present but it is actively maintained. Most (90%) of the wetland does not perform this function. Opportunity exists as wetland is adjacent to freeway. | | |
| Nutrient & Toxicant Removal | | X | Water is not detained for long periods as wetland is a slope and most (90%) of wetland does not perform this function. Some removal does occur in the ditch at the base of the slope. Opportunity exists as wetland is adjacent to freeway. | | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline as wetland drains directly to storm system. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Wetland has an outlet from which organic matter is flushed. Wetland does not likely perform this function at a high level as it lacks deciduous woody plants and diverse plant structure and interspersions. | X | |
| General Habitat Suitability | | X | Wetland is located in freeway median and lacks connectivity to other habitats. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Forested, scrub shrub, snags, and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | X | | State listed plant species has been documented in the wetland. | X | |

Wetland Functions & Values Form

Wetland I.D: D

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine forested/emergent

Ecology Category: 4

Local Rating: 4

Wetland size: 0.07 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is a ditch located on a slope and water is only slightly retained during storm events as evidenced by scour marks in the ditch. Dense woody vegetation is present in the wetland. Wetland likely performs function at a low level. | | |
| Sediment Removal | X | | Some removal does occur in the ditch as evidenced by sediment deposits. Dense herbaceous vegetation is present. Opportunity exists as wetland is adjacent to freeway. | | |
| Nutrient & Toxicant Removal | X | | Water is not detained for long periods as wetland is on a slope. Some removal does occur in the ditch. Silty clay soils are present in the upper 10 inches of the soil. Opportunity exists as wetland is adjacent to freeway. | | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline as wetland drains directly to storm system. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Wetland has an outlet from which organic matter is flushed. | X | |
| General Habitat Suitability | | X | Wetland is located in freeway median and lacks connectivity to other habitats. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Snags and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness or heritage. | | |

Wetland Functions & Values Form

Wetland I.D: E

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine forested/ scrub shrub

Ecology Category: 2

Local Rating: 2

Wetland size: 2.69 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is a closed depression with a highly constricted outlet. | X | |
| Sediment Removal | X | | Removal does occur in the wetland as evidenced by sediment deposits. Ponding occurs in the wetland. Dense herbaceous vegetation is present. Wetland is a closed depression. | X | |
| Nutrient & Toxicant Removal | X | | Water is ponded for long durations. Silty clay soils are present. Wetland has 30% areal cover of dense herbaceous vegetation. | X | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline. | | |
| Production of Organic Matter and its Export | | X | Highly constricted outlet limits export to major flood events. | | |
| General Habitat Suitability | X | | Wetland is completely surrounded by development. Connectivity to other habitats is through narrow highly disturbed corridors. Wetland contains vegetative and structural diversity. | X | |
| Habitat for Aquatic Invertebrates | X | | Wetland is ponded for long durations. Cover exists in the ponded area. Various water depths and aquatic bed are not present in the wetland. Wetland likely performs function at a low level. | | |
| Habitat for Amphibians | X | | Wetland is ponded for long durations. Thin stemmed vegetation is present in ponded area. Buffer is highly developed. Woody debris is present. Wetland likely performs function at a low level. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Banks suitable for denning, and high level of interspersion are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | X | | Wetland does not contain open water. Emergent vegetation, snags, trees, and shrubs are present. | X | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | X | | Dominant and co-dominant plants are primarily native species. Wetland has vegetative stratification and mature trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness and heritage. | | |

Wetland Functions & Values Form

Wetland I.D.: F

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine forested/scrub shrub

Ecology Category: 4

Local Rating: 4

Wetland size: 0.03 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|---|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is part of stormwater conveyance and is a shallow depression that flows to a drain in the center. Dense woody vegetation not present in the wetland. | | |
| Sediment Removal | X | | Some removal does occur in the wetland as evidenced by sediment deposits. Dense herbaceous vegetation is not present. Opportunity exists as wetland is adjacent to freeway. | X | |
| Nutrient & Toxicant Removal | X | | No evidence of ponding was observed. Opportunity exists as wetland is adjacent to freeway. Wetland performs function at a low level. | | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense shrubs but not herbaceous vegetation. Woody vegetation is deciduous. Wetland drains to storm system. | X | |
| General Habitat Suitability | | X | Wetland is not surrounded by development and lacks connectivity to other habitats. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Forested, scrub shrub, snags, and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are a mix of native and non-native native species. Wetland lacks diverse vegetative structure and stratification. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness or heritage. | | |

Wetland Functions & Values Form

Wetland I.D.: G

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine emergent

Ecology Category: 3

Local Rating: 3

Wetland size: 0.11 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | | X | Wetland is a depression with a small outfall. Water is retained but not for long periods. Dense woody vegetation not present. | | |
| Sediment Removal | X | | Removal does occur as evidenced by sediment deposits. Dense herbaceous vegetation is present. Opportunity exists as wetland is adjacent to freeway. | X | |
| Nutrient & Toxicant Removal | X | | Water is not detained for long periods. Wetland has at least 30% areal cover of live dense herbaceous vegetation. Opportunity exists as wetland is adjacent to freeway. | | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline as wetland drains directly to storm system. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Wetland has an outlet from which organic matter is flushed. Wetland does not likely perform this function at a high level as it lacks deciduous woody plants and diverse plant structure and interspersions. | X | |
| General Habitat Suitability | | X | Wetland is located in freeway median and lacks connectivity to other habitats. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Forested, scrub shrub, snags, and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily non-native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness or heritage wetland. | | |

Wetland Functions & Values Form

Wetland I.D: H

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine forested/emergent

Ecology Category: 2

Local Rating: 2

Wetland size: 0.62 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|---|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is a depression with a highly constricted outlet. | X | |
| Sediment Removal | X | | Removal does occur in the wetland as evidenced by sediment deposits. Ponding occurs in the wetland. Dense herbaceous vegetation is present. Wetland is a depression with a highly constricted outlet. | X | |
| Nutrient & Toxicant Removal | X | | Water is ponded for long durations. Silty clay soils are present. Wetland has 30% areal cover of dense herbaceous vegetation. | X | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline. | | |
| Production of Organic Matter and its Export | X | | Wetland has 30% areal cover of dense herbaceous vegetation. Woody plants are primarily deciduous. Constricted outlet limits export to the wet season. | | |
| General Habitat Suitability | X | | Wetland is completely surrounded by development. Connectivity to other habitats is through narrow highly disturbed corridors. Wetland contains vegetative and structural diversity. | X | |
| Habitat for Aquatic Invertebrates | X | | Wetland is ponded for long durations. Cover exists in the ponded area. Various water depths and aquatic bed are not present in the wetland. Wetland likely performs function at a low level. | | |
| Habitat for Amphibians | X | | Wetland is ponded for long durations. Thin stemmed vegetation is present in ponded area. Buffer is highly developed. Woody debris is present. Wetland likely performs function at a low level. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Banks suitable for denning, and high level of interspersions are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | X | | Wetland does not contain open water. Emergent vegetation, snags, trees, and shrubs are present. Wetland likely performs function at a low level. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | X | | Dominant and co-dominant plants are a mix of non-native and native species. Wetland has vegetative stratification and mature trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness and heritage. | | |

Wetland Functions & Values Form

Wetland I.D: J

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine scrub shrub/emergent Ecology Category: 2

Local Rating: 2

Wetland size: 13.68 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|---|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is in the upper watershed. Wetland is a depression that drains through a culvert that is slightly constricted. Wetland likely performs function at a low level. | | |
| Sediment Removal | X | | Removal does occur in the wetland as evidenced by sediment deposits. Dense herbaceous vegetation is present. | X | |
| Nutrient & Toxicant Removal | X | | Water is detained in the wetland. Silty clay soils are present in the upper 10 inches of the soil. Wetland has at least 30% areal cover of live dense herbaceous vegetation. | X | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline as wetland drains directly to storm system. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Wetland has an outlet from which organic matter is flushed. | X | |
| General Habitat Suitability | X | | Wetland is surrounded by development. Connections to other habitats are narrow and highly disturbed. Wetland lacks vegetative and structural diversity. Evidence of deer was observed. Wetland likely performs function at a low level. | | |
| Habitat for Aquatic Invertebrates | X | | A small part of the wetland is seasonally ponded. Cover exists in the ponded area. Various water depths and aquatic bed are not present in the wetland. Wetland likely performs function at a low level. | | |
| Habitat for Amphibians | X | | A small part of the wetland is seasonally ponded. Thin stemmed vegetation is present in ponded area. Wetland buffer is highly developed. Woody debris present in wetland. Wetland likely performs function at a low level. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersion are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Snags and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are a mix of native and non-native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | X | | State listed plant species is documented in the wetland. | X | |

Wetland Functions & Values Form

Wetland I.D.: K

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine scrub shrub/emergent Ecology Category: 4

Local Rating: 4

Wetland size: 0.04 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|---|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is a ditch located on a slight slope and water is only slightly retained during storm events as evidenced by scour marks in the ditch. Dense woody vegetation is present in the wetland. Wetland likely performs function at a low level. | | |
| Sediment Removal | X | | Some removal does occur in the ditch as evidenced by sediment deposits. Dense herbaceous vegetation is present. Opportunity exists as wetland is adjacent to roadway. | X | |
| Nutrient & Toxicant Removal | X | | Water is not detained for long periods as wetland is on a slope. However, smaller depressions in the wetland were observed with ponded water. Some removal does occur in the wetland. Opportunity exists as wetland is adjacent to roadway. | | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline as wetland drains directly to storm system. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Wetland has an outlet from which organic matter is flushed. | X | |
| General Habitat Suitability | | X | Wetland is surrounded by development. Connections to other habitats are limited and highly disturbed. Wetland lacks vegetative and structural diversity. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersion are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Snags and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness or heritage wetland. | | |

Wetland Functions & Values Form

Wetland I.D: L

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine forested/emergent

Ecology Category: 2

Local Rating: 2

Wetland size: 0.04 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is a ditch located on flat ground that outfalls to storm drain. Outfall is slightly constricted. Wetland likely performs function at a low level. | | |
| Sediment Removal | X | | Removal does occur in the wetland as evidenced by sediment deposits. Dense herbaceous vegetation is present. | X | |
| Nutrient & Toxicant Removal | X | | Water is detained in the wetland. Silty clay soils are present in the upper 10 inches of the soil. | X | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline as wetland drains directly to storm system. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Wetland has an outlet from which organic matter is flushed. | X | |
| General Habitat Suitability | X | | Wetland is surrounded by development. Connections to other habitats are limited and highly disturbed. Wetland lacks vegetative and structural diversity. Evidence of deer was observed. Wetland likely performs function at a low level. | | |
| Habitat for Aquatic Invertebrates | X | | A small part of the wetland is ponded for long durations. Cover exists in the ponded area. Various water depths and aquatic bed are not present in the wetland. Wetland likely performs function at a low level. | | |
| Habitat for Amphibians | X | | A small part of the wetland is ponded for long durations. Thin stemmed vegetation is present in ponded area. Wetland buffer is highly developed. Woody debris present in wetland. Wetland likely performs function at a low level. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Snags and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily non-native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness or heritage wetland. | | |

Wetland Functions & Values Form

Wetland I.D.: M

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine scrub shrub/emergent Ecology Category: 4

Local Rating: 4

Wetland size: 0.05 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is a ditch located on a slope and water is only slightly retained during storm events as evidenced by scour marks in the ditch. Dense woody vegetation is present in the wetland. Wetland likely performs function at a low level. | | |
| Sediment Removal | X | | Some removal does occur in the ditch as evidenced by sediment deposits. Dense herbaceous vegetation is present. Opportunity exists as wetland is adjacent to roadway. | X | |
| Nutrient & Toxicant Removal | X | | Water is not detained for long periods as wetland is on a slope. However, smaller depressions in the wetlands were observed with ponded water. Some removal does occur in the wetland. Opportunity exists as wetland is adjacent to roadway. | | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline as wetland drains directly to storm system. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Wetland has an outlet from which organic matter is flushed. | X | |
| General Habitat Suitability | | X | Wetland is surrounded by development. Connections to other habitats are limited and highly disturbed. Wetland lacks vegetative and structural diversity. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersion are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Snags and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness or heritage. | | |

Wetland Functions & Values Form

Wetland I.D: N

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine emergent

Ecology Category: 3

Local Rating: 3

Wetland size: 0.06 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|---|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Wetland is a ditch located on a slope. Water is impounded behind a constricted outlet. Dense woody vegetation is not present in the wetland. Wetland likely performs function at a low level. | | |
| Sediment Removal | X | | Some removal does occur in the ditch as evidenced by sediment deposits. Dense herbaceous vegetation is present. Opportunity exists as wetland is adjacent to roadway. | X | |
| Nutrient & Toxicant Removal | X | | Water is not detained for long periods. Some removal does occur in the wetland. Wetland has dense herbaceous cover but it is actively maintained. Opportunity exists as wetland is adjacent to roadway. | | |
| Erosion Control & Shoreline Stabilization | X | | Wetland retains water and likely reduces erosion to the creek but since connection to creek is through a culvert, some erosion likely still occurs near the culvert outfall. | | |
| Production of Organic Matter and its Export | X | | Wetland has at least 30% areal cover of dense vegetation. Woody vegetation in part of the buffer is deciduous. Wetland has an outlet from which organic matter is flushed. | X | |
| General Habitat Suitability | X | | Wetland is surrounded by development. Connections to other habitats are narrow and highly disturbed. Wetland lacks vegetative and structural diversity. Wetland performs function at a low level. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersion are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Snags and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily non-native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Wetland does not meet any of the criteria for uniqueness or heritage. | | |

Wetland Functions & Values Form

Wetland I.D.: P

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine emergent

Ecology Category: 4

Local Rating: 4

Wetland size: 0.03 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Ditch is a closed depression. Ponding was observed. Dense woody vegetation not present in the ditch. | | |
| Sediment Removal | X | | Some removal does occur in the ditch at the base of the slope as evidenced by sediment deposits. Dense herbaceous vegetation is present but it is actively maintained. Opportunity exists as wetland is adjacent to freeway. | X | |
| Nutrient & Toxicant Removal | X | | Some removal does occur in the ditch as ponding was observed. Opportunity exists as wetland is adjacent to freeway. | | |
| Erosion Control & Shoreline Stabilization | | X | Wetland is not associated with a water course or shoreline. | | |
| Production of Organic Matter and its Export | | X | Wetland has at least 30% areal cover of dense vegetation. Wetland does not have an outlet from which organic matter is flushed. | | |
| General Habitat Suitability | X | | Wetland is located in adjacent to a narrow forested area along the freeway. Connectivity is present but the close proximity of the wetland to the freeway discourages its use by wildlife. | | |
| Habitat for Aquatic Invertebrates | | X | Wetland is not ponded long enough to provide habitat for aquatic invertebrates. Various water depths, cover in ponded areas, and aquatic bed are not present in the wetland. | | |
| Habitat for Amphibians | | X | Wetland is not ponded long enough to provide habitat for amphibians. Wetland buffer is highly developed. No woody debris present in wetland. | | |
| Habitat for Wetland-Associated Mammals | | X | Wetland does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the wetland. | | |
| Habitat for Wetland-Associated Birds | | X | Wetland does not contain open water. Emergent vegetation is present in the wetland. Forested, scrub shrub, snags, and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Wetland is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily non-native native species. Wetland lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Wetland is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | X | X | Wetland does not meet any of the criteria for uniqueness or heritage. | | |

Wetland Functions & Values Form

Wetland I.D: X

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine scrub shrub/open water

Ecology Category: 2

Local Rating: 2

Wetland size: 0.26 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Stormwater facility purpose is to retain stormwater. Facility is a closed depression with a highly constricted outlet. | X | |
| Sediment Removal | X | | Removal does occur in the wetland as evidenced by sediment deposits. Dense herbaceous vegetation is present. Stormwater facility is a closed depression. | X | |
| Nutrient & Toxicant Removal | X | | Water is ponded for long durations. Silty clay soils are present. | X | |
| Erosion Control & Shoreline Stabilization | | X | Stormwater facility is not associated with a water course or shoreline. | | |
| Production of Organic Matter and its Export | | X | Highly constricted outlet limits export to major flood events. | | |
| General Habitat Suitability | X | | Stormwater facility is completely surrounded by development and lacks connectivity to other habitats. Stormwater facility contains vegetative and structural diversity. Stormwater facility likely performs function at a low level. | | |
| Habitat for Aquatic Invertebrates | X | | Stormwater facility is ponded for long durations. Cover exists in the ponded area. Various water depths and aquatic bed are not present in the wetland. Stormwater facility likely performs function at a low level. | | |
| Habitat for Amphibians | X | | Stormwater facility is ponded for long durations. Thin stemmed vegetation is not present in ponded area. Buffer is highly developed. Woody debris not present. Stormwater facility likely performs function at a low level. | | |
| Habitat for Wetland-Associated Mammals | | X | Stormwater facility does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the stormwater facility. | | |
| Habitat for Wetland-Associated Birds | | X | Stormwater facility does not contain open water. Emergent vegetation is present. Snags and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Stormwater facility is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily native species. Stormwater facility lacks vegetative stratification and mature trees. | | |
| Educational or Scientific Value | | X | Stormwater facility is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Stormwater facility does not meet any of the criteria for uniqueness and heritage. | | |

Wetland Functions & Values Form

Wetland I.D.: Y

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine forested/emergent

Ecology Category: 2

Local Rating: 2

Wetland size: 0.20 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|--|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Stormwater facility purpose is to retain stormwater. Facility is a closed depression with a highly constricted outlet. | X | |
| Sediment Removal | X | | Removal does occur in the wetland as evidenced by sediment deposits. Dense herbaceous vegetation is present. Stormwater facility is a closed depression. | X | |
| Nutrient & Toxicant Removal | X | | Water is ponded for long durations. Silty clay soils are present. | X | |
| Erosion Control & Shoreline Stabilization | | X | Stormwater facility is not associated with a water course or shoreline. | | |
| Production of Organic Matter and its Export | | X | Highly constricted outlet limits export to major flood events. | | |
| General Habitat Suitability | X | | Stormwater facility is completely surrounded by development and lacks connectivity to other habitats. Stormwater facility contains vegetative and structural diversity. Stormwater facility likely performs function at a low level. | | |
| Habitat for Aquatic Invertebrates | X | | Stormwater facility is ponded for long durations. Cover exists in the ponded area. Various water depths and aquatic bed are not present in the wetland. Stormwater facility likely performs function at a low level. | | |
| Habitat for Amphibians | X | | Stormwater facility is ponded for long durations. Thin stemmed vegetation is not present in ponded area. Buffer is highly developed. Woody debris not present. Stormwater facility likely performs function at a low level. | | |
| Habitat for Wetland-Associated Mammals | | X | Stormwater facility does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the stormwater facility. | | |
| Habitat for Wetland-Associated Birds | | X | Stormwater facility does not contain open water. Emergent vegetation is present. Snags and sand bars/muds are not present in the wetland. | | |
| General Fish Habitat | | X | Stormwater facility is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily native species. Stormwater facility lacks vegetative stratification and mature trees. | | |
| Educational or Scientific Value | | X | Stormwater facility is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | | X | Stormwater facility does not meet any of the criteria for uniqueness and heritage. | | |

Wetland Functions & Values Form

Wetland I.D.: Z

Project: Salmon Creek Interchange Project

Assessed by: Leandra Cleveland

Date: 7/15/05 (updated Oct 08)

Cowardin Class: Palustrine scrub shrub/emergent Ecology Category: 2

Local Rating: 2

Wetland size: 0.29 acres

| Function/Value | Occurrence | | Rationale | Principal Function(s) | Comments |
|---|------------|---|---|-----------------------|----------|
| | Y | N | | | |
| Flood Flow Alteration | X | | Stormwater facility purpose is to retain and infiltrate stormwater. Facility is a closed depression with a highly constricted outlet. | X | |
| Sediment Removal | X | | Removal does occur in the wetland as evidenced by sediment deposits. Dense herbaceous vegetation is present. Stormwater facility is a closed depression. | X | |
| Nutrient & Toxicant Removal | X | | Water is ponded for long durations. Silty clay soils are present. | X | |
| Erosion Control & Shoreline Stabilization | | X | Stormwater facility is not associated with a water course or shoreline. | | |
| Production of Organic Matter and its Export | | X | Highly constructed outlet limits export to major flood events. | | |
| General Habitat Suitability | X | | Stormwater facility is surrounded by development. Connections to other habitats are limited and highly disturbed. Stormwater facility lacks vegetative and structural diversity. Evidence of deer was observed. Stormwater facility likely performs function at a low level. | | |
| Habitat for Aquatic Invertebrates | X | | Stormwater facility is ponded for long durations. Cover exists in the ponded area. Various water depths and aquatic bed are not present in the wetland. Stormwater facility likely performs function at a low level. | | |
| Habitat for Amphibians | X | | Stormwater facility is ponded for long durations. Thin stemmed vegetation is present in ponded area. Buffer is highly developed. Woody debris not present in wetland. Stormwater facility likely performs function at a low level. Stormwater facility likely performs function at a low level. | | |
| Habitat for Wetland-Associated Mammals | | X | Stormwater facility does not contain permanent or semipermanent water. Dense shrubs and trees, banks suitable for denning, and high level of interspersions are not present in the Stormwater facility. | | |
| Habitat for Wetland-Associated Birds | | X | Stormwater facility does not contain open water. Emergent vegetation is present. Snags and sand bars/muds are not present. | | |
| General Fish Habitat | | X | Stormwater facility is not directly associated with a fish-bearing stream. | | |
| Native Plant Richness | | X | Dominant and co-dominant plants are primarily native species. Stormwater facility lacks diverse vegetative structure, stratification, and trees. | | |
| Educational or Scientific Value | | X | Stormwater facility is not accessible to the public. Site is not documented for scientific or educational use. | | |
| Uniqueness and Heritage | X | | State listed plant species is documented in the stormwater facility. | X | |