

**APPENDIX A. STREAM FIELD FORMS  
QUALITATIVE ELECTROFISHING SURVEY RESULTS SUMMARY**

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**Stream name:** Cochran Springs # 0253

**Basin:** Cochran Springs Creek

**Date:** 1/16/98

**Trib. to:** Lake Washington / # 0252

**Observation #** 1

**Location:** At "estuary" or confluence with stream # 252

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**Effective buffer width:** > 100 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Willow - many felled by beavers

**Understory species:** Reed canary grass, watercress, nightshade

**Proximity to roads, buildings, parking lots, homes, etc.**

Office buildings and parking lots are immediately upstream

**Est. stream slope:** 1% (steeper than you'd expect just before lake level)

**Width (typ.)** N/A - Braided

**Substrate type:** Sand

**Erosion/Sedimentation:** Sand is piling up, successively filling old channels and forcing the channel to move

**LWD prevalence and type:** Lots of downed willow from beavers. Some of these trees were quite large, > 12" diameter, and the beavers have felled the whole forest in places

**Prevalence of pools, riffles, runs, etc.:** Braided channel, some shallow, broad ponded areas, then "estuary"

**Fish use:** Not tested - Assume Cutthroat, possibly Coho, various warm water "minnows" and young from Lake Washington

**Wildlife species seen<sup>1</sup>:** Beaver sign, expect heron, king fisher, waterfowl, etc.

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Cochran Springs # 0253

**Basin:** Cochran Springs Creek

**Date:** 1/16/98

**Trib. to:** Lake Washington/ # 0252

**Observation #** 2

**Location:** Downstream of Lake Washington Blvd., upstream of "estuary"

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**Effective buffer width:** 20 - 25 feet

**Vegetation types<sup>1</sup>**

**Overstory species:** Alder, willow, cottonwood

**Understory species:** Himalayan blackberry, horsetail, Scotch broom, iris, nightshade, watercress

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows between and past office buildings, parking lots

**Est. stream slope:** 2 - 3%

**Width (typ.)** 6 - 8 feet

**Substrate type:** Mostly sandy with some gravel exposed at riffles

**Erosion/Sedimentation:** Sandy deposition in backwaters and above banks from overbank flow

**LWD prevalence and type:** Limited to 3 - 4" deciduous (alder) in various stages of decomposition

**Prevalence of pools, riffles, runs, etc.:** Few pools, and these are poorly formed, dominated by runs, some riffles

**Fish use:** Coho, Cutthroat, and Lamprey were caught electrofishing on 1/19/98

**Wildlife species seen<sup>1</sup>:** Lots of songbirds

**Notes:** Sedimentation and filling of channel may eventually allow some flood flows into parking lots

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Cochran Springs # 0253

**Basin:** Cochran Springs Creek

**Date:** 1/16/98

**Trib. to:** Lake Washington/ # 0252

**Observation #** 3

**Location:** Upstream of Lake Washington Blvd. to RR grade upstream of NE 38th Pl.

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**Effective buffer width:**  $\pm$  20 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, cottonwood, fir, willow

**Understory species:** Himalayan blackberry, ivy, grasses

**Proximity to roads, buildings, parking lots, homes, etc.**

Fairly narrow, but well-vegetated (in places). Corridor through office business, park type developments

**Est. stream slope:** 4 - 6%

**Width (typ.)** 6 - 8 feet

**Substrate type:** Sandy gravel downstream, gravel with some boulder cascades upstream

**Erosion/Sedimentation:** Little of either, channel appears stable

**LWD prevalence and type:** Little

**Prevalence of pools, riffles, runs, etc.:** Few pools - mostly high-gradient riffles - some cascades

**Fish use:** Cutthroat only captured on 1/19/98 up to RR culvert outfall

**Wildlife species seen<sup>1</sup>:** None

**Notes:** 1) Boulder cascade  $\pm$  5 feet high at culvert outfall below NE 38th Pl. is a likely fish migration barrier

2) Outfall from RR culvert is a definite migration barrier

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**Stream name:** Cochran Springs # 0253

**Basin:** Cochran Springs Creek

**Date:** 1/19/98

**Trib. to:** Lake Washington/ # 0252

**Observation #** 4

**Location:** Upstream of RR culvert - watershed park

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**Effective buffer width:** 100 feet +

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, cedar, fir, hemlock, Pacific willow

**Understory species:** Salmonberry, elderberry, Himalayan blackberry, sword fern, Oregon grape, lady fern

**Proximity to roads, buildings, parking lots, homes, etc.**

None too close. 108th Ave crosses this ravine

**Est. stream slope:** 2 - 4%

**Width (typ.)** 6 - 10 feet

**Substrate type:** Medium, very sandy gravel

**Erosion/Sedimentation:** Sandy deposition on channel margins. Raw, sandy banks exposed, 3 - 8 + feet high

**LWD prevalence and type:** Some, but less than there might be in this maturing forest. Some old growth stumps

**Prevalence of pools, riffles, runs, etc.:** Moderately developed riffle, pool, meander sequence, but pools not too deep because LWD not that common

**Fish use:** Checked upstream of 108th Ave. - 7 smallish Coho only ( $\pm$  3")

**Wildlife species seen<sup>1</sup>:** Songbirds - Toehee

**Notes:** Power line alignment west from 108th St. goes over creek. No forest, only Himalayan blackberry there.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Yarrow # 0252

**Basin:** Yarrow Creek

**Date:** 1/20/98

**Trib. to:** Lake Washington

**Observation #** 5

**Location:** "Estuary" below Points Drive

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**Effective buffer width:** ± 40 feet at upper end, 100 feet + at lower end

**Vegetation types<sup>1</sup>**

**Overstory species:** Sparse overstory - Alder snags, scattered willow, some alders still alive

**Understory species:** Red osier dogwood, Himalayan blackberry, Scotch broom, reed canary grass! (dominates)

**Proximity to roads, buildings, parking lots, homes, etc.**

Office buildings 40 -50 feet away at upper end, broad estuary below

**Est. stream slope:** < 1%

**Width (typ.)** 5 - 7 feet

**Substrate type:** Sand with small gravel - patches of larger gravel, too, but still mostly sandy.

**Erosion/Sedimentation:** Little noted

**LWD prevalence and type:** Occasional 4 - 10" dia. deciduous

**Prevalence of pools, riffles, runs, etc.:** Mostly deep runs at low gradient

**Fish use:** Presumed Coho, Cutthroat

**Wildlife species seen<sup>1</sup>:** Beaver sign, Songbirds

**Notes:** Orangish footing water enters right bank near upper end. Smaller tributary to west has sandy, gravelly alluvial fan. Stream (yarrow) has a well-defined channel through wetlands

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Yarrow # 0252

**Basin:** Yarrow Creek

**Date:** 1/20/98

**Trib. to:** Lake Washington

**Observation #** 6

**Location:** Through freeway clover leafs

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**Effective buffer width:**  $\pm$  50 feet, but in reed canary grass, Himalayan blackberry -room for improvement (space isn't being used for anything else).

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, big leaf maple sapling fir

**Understory species:** Himalayan blackberry, reed canary grass (dominant)

**Proximity to roads, buildings, parking lots, homes, etc.**

Surrounded by freeway interchange with occasional small gravel patches

**Est. stream slope:** < 1%

**Width (typ.)** 7 - 8 feet

**Substrate type:** Predominantly sand

**Erosion/Sedimentation:** None noted

**LWD prevalence and type:** None noted

**Prevalence of pools, riffles, runs, etc.:** Virtually all low gradient Glide/Run

**Fish use:** Presumed Cutthroat, possibly Coho

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Culverts not known to be impassable

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Yarrow # 252

**Basin:** Yarrow Creek

**Trib. to:** Lake Washington

**Location:** Upstream from 108th Ave

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**Date:** 1/20/98

**Observation #** 7

**Effective buffer width:** 15 - 20 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, sapling fir, hemlock

**Understory species:** Himalayan blackberry, thimbleberry, snowberry, sword fern, red osier dogwood, Scotch broom, nightshade, cattails

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows in road side channels; ditches

**Est. stream slope:** 1 - 3%

**Width (typ.)** 6 - 8 feet

**Substrate type:** Sandy

**Erosion/Sedimentation:** Some sandy deposition within the channel itself

**LWD prevalence and type:** Occasional log (one placed)

**Prevalence of pools, riffles, runs, etc.:** Mostly runs, a few shallowly formed pools

**Fish use:** Cutthroat only captured by electrofishing

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Department of Transportation maintenance lot borders the creek along Northup Way

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**Stream name:** Yarrow # 252

**Basin:** Yarrow Creek

**Date:** 1/20/98

**Trib. to:** Lake Washington

**Observation #** 8

**Location:** Between Northup and 6-foot-high boulder cascade from parking lot and RR grade, constitutes a fish migration barrier

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**Effective buffer width:** 100 + feet - wooded ravine

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, hemlock, cedar, cottonwood, big leaf maple

**Understory species:** salmonberry, sword fern, vine maple, red elderberry, ivy

**Proximity to roads, buildings, parking lots, homes, etc.**

Surrounding roads, office park, light industrial > 75 feet away

**Est. stream slope:** 2 - 4%

**Width (typ.)** 8 - 10 feet

**Substrate type:** Gravel, dark colored, medium-sized

**Erosion/Sedimentation:** ± 3-foot-high banks exposed at outside of bends

**LWD prevalence and type:** Moderate amounts - some old growth noted

**Prevalence of pools, riffles, runs, etc.:** Mostly shallow riffles, few poorly-formed pools

**Fish use:** Cutthroat only captured by electrofishing

**Wildlife species seen<sup>1</sup>:** None

**Notes:**

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**Stream name:** Yarrow # 252

**Basin:** Yarrow Creek

**Date:** 1/20/98

**Trib. to:** Lake Washington

**Observation #** 9

**Location:** Upstream of RR, I - 405

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**Effective buffer width:** 30 - 50 feet

**Vegetation types<sup>1</sup>:**

**Overstory species:** Alder, cedar, fir, madrone, maple, hemlock, big leaf maple

**Understory species:** Evergreen blackberry, sword fern, salmonberry, Oregon grape

**Proximity to roads, buildings, parking lots, homes, etc.**

Between I - 90 and 116th Ave NE

**Est. stream slope:** 3 - 5%

**Width (typ.)** 5 - 7 feet

**Substrate type:** Small gravel, sand

**Erosion/Sedimentation:** Carries some sand - builds up in channel margins

**LWD prevalence and type:** Moderate amounts - some old growth, some second growth

**Prevalence of pools, riffles, runs, etc.:** Mostly riffles, but some pools forced around LWD

**Fish use:** Cutthroat found upstream (N) of NE 41st St. in Kirkland City Limits

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Migration barrier on NE 34th St. Plunge below culvert

Culvert under 116th - outfall plunge 18 inches after steep culvert - likely barrier

Upstream of 116th - flows along street and through residential area

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Carillon #

**Basin:** Carillon Creek

**Date:** 1/20/98

**Trib. to:** Lake Washington

**Observation #** 10

**Location:** Within Carillon Point

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**Effective buffer width:** 20 - 25 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Birch ( $\pm$  5" diameter), hemlock, fir, cedar saplings

**Understory species:** Cattail, snowberry, rose, red- and yellow- twig dogwood, sword fern, rhododendron, tall Oregon grape, spirea, iris, salal, vine maple

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows between office, park, bldgs., roads

**Est. stream slope:** 3 - 5%

**Width (typ.)** 2 - 5 feet

**Substrate type:** Medium gravel, some sand

**Erosion/Sedimentation:** None noted

**LWD prevalence and type:** Reconstructed stream channel includes log weirs. Also, lots of rockery boulders in and along stream

**Prevalence of pools, riffles, runs, etc.:** Some well-formed pools below rock and log weirs - riffles, runs, good mix. Boulder cascades over rockery rock (rip rap).

**Fish use:** Presumed Cutthroat, Coho

**Wildlife species seen<sup>1</sup>:** None

**Notes:** !! A much-too-high plunge,  $\pm$  2 feet, over 2 - tiered log weir below first road crossing up from the lake. Was it made this way? Need to raise riffle downstream to make more of a plunge pool.

Above crossing - gross rip rapped banks

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**Stream name:** Carillon

**Basin:** Carillon Creek

**Date:** 1/20/98

**Trib. to:** Lake Washington

**Observation #** 11

**Location:** Upstream of Lake Washington Blvd. to fenced water system compound

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**Effective buffer width:** 75 - 100 feet in wooded ravine

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, big leaf maple, few fir

**Understory species:** Sword fern, salmonberry, Himalayan blackberry

**Proximity to roads, buildings, parking lots, homes, etc.**

RR crossing, houses and condos at top of ravine bank - 75 - 100 feet away

**Est. stream slope:** 4 - 7%

**Width (typ.)** 2 - 5 feet

**Substrate type:** Sandy gravel

**Erosion/Sedimentation:** Banks unstable due to seeps, disturbance from water line, lots of 1 - 2 feet high vertical banks

**LWD prevalence and type:** Lots of LWD

**Prevalence of pools, riffles, runs, etc.:** Few pools, mostly riffles

**Fish use:** Electrofishing failed to reveal any fish use of this stream section

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Found fenced watershed compound

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**Stream name: "NW College"**

**Basin:** Urban Drainage

**Date:** 1/26/98

**Trib. to:** Lake Washington

**Observation #** 12

**Location:** Between 62nd and 64th St. East of Lakeview Dr. at RR crossing

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**Effective buffer width:**  $\pm$  50 feet near RR,  $\pm$  30 feet farther down

**Vegetation types<sup>1</sup>**

**Overstory species:** big leaf maple, few fir, cedar

**Understory species:** Sword fern, ivy, vine maple, Indian plum, planted small cedars

**Proximity to roads, buildings, parking lots, homes, etc.**

Lakeview Dr. to RR, wooded ravine through single and multi family. Upstream of RR - mostly piped with some open sections

**Est. stream slope:** 3 - 5%

**Width (typ.)** 9 - 12 feet near RR, 3 - 4 feet farther down

**Substrate type:** Large gravel, some orangish scum, cobbles common, some boulders

**Erosion/Sedimentation:** Eroding badly below RR culvert - really blown out

**LWD prevalence and type:** A few fairly rotten logs and stumps, largely ineffective

**Prevalence of pools, riffles, runs, etc.:** One plunge pool at culvert outlet, otherwise riffles near RR. Some pools form further downstream

**Fish use:** None detected by electrofishing on 2/5/98

**Wildlife species seen<sup>1</sup>:** Songbirds, crows

**Notes:** Ravine disappears at the RR tracks - can't find stream above 4 feet diameter, Concrete pipe under RR. 8 feet drop out of steep culvert. Huge bowl carved out. Eroding. A boulder cascade  $\pm$  200 feet below RR; additional boulder cascades and a few pools

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** "Houghton" Creek

**Basin:** Urban Drainage

**Trib. to:** Lake Washington

**Location:** 1st St. to State St.

**Date:** 1/26/98

**Observation #** 13

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**Effective buffer width:**  $\pm$  25 - 30

**Vegetation types<sup>1</sup>-**

**Overstory species:** Big leaf maple, fir, cedar

**Understory species:** Ivy!, sword fern

**Proximity to roads, buildings, parking lots, homes, etc.**

Passes through single family and multi family units.

**Est. stream slope:** 3 - 6%

**Width (typ.)** 5 - 7 feet

**Substrate type:** Medium gravel, but with imported boulders, concrete rubble, etc.

**Erosion/Sedimentation:** Typically incised 12 - 18" - one significant, large nick point

**LWD prevalence and type:** Mostly 4 - 8", somewhat rotten maple limbs

**Prevalence of pools, riffles, runs, etc.:** Mostly riffles, some cascades over imported boulders, a few poorly-formed pools

**Fish use:** No fish detected by electrofishing on 2/5/98

**Wildlife species seen<sup>1</sup>:** Crows

**Notes:** 2-foot-diameter concrete pipe from under RR tracks.

Piped beneath school playfields.

Ugly water! Road runoff, etc..

**Lower section:** Nickpoint, blackberries and lawn along stream.

Piped below 1st street to Lake Washington.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Everest Creek # 0244 (or # 0243 in a pipe)

**Basin:** Urban Drainage

**Date:** 1/26/98

**Trib. to:** Lake Washington

**Observation #** 14

**Location:** Everest Park - above RR

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**Effective buffer width:** Varies 20 - 100 feet

**Vegetation types<sup>1</sup>:**

**Overstory species:** Big leaf maple, alder, cottonwood

**Understory species:** Himalayan Blackberry!, salmonberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows past ballfields, parking lots, playgrounds, etc.

**Est. stream slope:** 2 - 4%

**Width (typ.)** 5 - 7 feet

**Substrate type:** Sand, some gravel at riffles

**Erosion/Sedimentation:** Sandy deposition on channel margins - some 4 feet high over-steepened banks

**LWD prevalence and type:** Mostly small, deciduous, in various stages of decomposition

**Prevalence of pools, riffles, runs, etc.:** Mostly runs, riffles - a few well-formed pools

**Fish use:** None detected by electrofishing on 2/5/98

**Wildlife species seen<sup>1</sup>:** Crows

**Notes:** Ecology block dam sediment (sand) trap at Everest Park

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**Stream name:** Everest Creek # 0244

**Basin:** Urban Drainage  
**Trib. to:** Lake Washington

**Date:** 2/5/98  
**Observation #** 15

**Location:** Downstream of 6th St. to culvert entry at Brightwater

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**Effective buffer width:**  $\pm$  25 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Big leaf maple, alder, few cedar

**Understory species:** Salmonberry, sword fern, ivy Himalayan blackberry, holly, osoberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Multi and single family housing tight to the top of the ravine edge

**Est. stream slope:** 4 - 5%

**Width (typ.)**  $\pm$  6 feet

**Substrate type:** Sandy, medium-sized gravel

**Erosion/Sedimentation:** Some sandy deposition noted, moderate

**LWD prevalence and type:** Some alder, some old growth cedar

**Prevalence of pools, riffles, runs, etc.:** Mostly riffles - a few poorly-formed pools

**Fish use:** None observed or detected by electrofishing on 2/5/98

**Wildlife species seen<sup>1</sup>:** Crows

**Notes:** Enters 18" concrete pipe at Brightwater and "disappears from the face of the earth."

Ravine, though narrow and built right to the top, is heavily wooded

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**Stream name:** Post office Creek# 0243

**Basin:** Urban Drainage

**Date:** 2/5/98

**Trib. to:** Lake Washington

**Observation #** 16

**Location:** Downstream of 2nd Avenue

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**Effective buffer width:** 20 - 30 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Willow, alder

**Understory species:** Red osier dogwood, Himalayan blackberry, salmonberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Many new, multifamily residential

**Est. stream slope:** 2 - 4%

**Width (typ.)** 2 - 4 feet

**Substrate type:** sand, silt

**Erosion/Sedimentation:** sandy, silty deposits

**LWD prevalence and type:** Some willow logs - large for willows

**Prevalence of pools, riffles, runs, etc.:** Mostly riffles - no well-formed pools

**Fish use:** None detected by electrofishing on 2/5/98

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Joins another tributary behind the post office

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** "North Fork" Post office Creek # 0247

**Basin:** Urban Drainage

**Date:** 2/6/98

**Trib. to:** PO Creek, Lake Washington

**Observation #** 17

**Location:** Due east from post office to RR along path, under 10th Street, through condos

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**Effective buffer width:** 5 - 15 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Sparse, some fir ± 20 - 25 feet, several weeping willow, alder saplings

**Understory species:** Himalayan blackberry, reed canary grass, ornamental shrubs

**Proximity to roads, buildings, parking lots, homes, etc.**

Runs very near multifamily housing

**Est. stream slope:** 4%

**Width (typ.)** 2 - 3 feet

**Substrate type:** grasses, quarry spalls, silt, muck, gravel patches, rockery rock

**Erosion/Sedimentation:** mucky deposition in places

**LWD prevalence and type:** None

**Prevalence of pools, riffles, runs, etc.:** Riffles, glides, cascades (no pools as such)

**Fish use:** Presumed none based on "South Fork" (# 0243) fishing

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Not previously shown on city map

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0248**

**Basin: Urban Drainage**

**Trib. to: "Post Office" Creek**

**Location: Upstream of 85th St. Culvert inlet**

**Date: 2/6/98**

**Observation # 18**

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**Effective buffer width: 20 - 30 feet**

**Vegetation types<sup>1</sup>-**

**Overstory species: Alder, cottonwood, willow, fir**

**Understory species: Himalayan blackberry**

**Proximity to roads, buildings, parking lots, homes, etc.**

**Sandwiched between 85th and various businesses**

**Est. stream slope: 1 - 2% (near lower end)**

**Width (typ.) 18 inches to 2 feet**

**Substrate type: Leaf litter, organic muck (oily sheen)**

**Erosion/Sedimentation: organic sediments**

**LWD prevalence and type: 2 - 3" alder limbs**

**Prevalence of pools, riffles, runs, etc.: Trickle flow, no pools noted**

**Fish use: Presumed none**

**Wildlife species seen<sup>1</sup>: None**

**Notes: Low quality, urban impacted. Oily, litter**

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**Stream name: #**

**Basin:** Urban Drainage

**Date:** 2/6/98

**Trib. to:** Moss Bay Creek/ Lake Washington

**Observation #** 19

**Location:** 112th Ave NE

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**Effective buffer width:** Zero at upper end - mowed grass and ponds,  
5 - 20 feet at lower end

**Vegetation types<sup>1</sup>-**

**Overstory species:** Weeping willow, hemlock, cedar, big leaf maple, fir

**Understory species:** Lawn, upper; Himalayan blackberry, salmonberry, red osier  
dogwood lower

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows through yards of single family residential

**Est. stream slope:** 6%

**Width (typ.)** 1 - 2 feet

**Substrate type:** Grass, placed gravel

**Erosion/Sedimentation:** None noted

**LWD prevalence and type:** None noted

**Prevalence of pools, riffles, runs, etc.:** Several artificial ponds, riffles between

**Fish use:** Presumed none

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Very park-like. Aesthetically pleasing, though less than ideal habitat

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 08-0246**

**Basin:** Urban Drainage  
**Trib. to:** Moss Bay Creek/ Lake Washington  
**Location:** Peter Kirk Elementary School

**Date:** 2/6/98  
**Observation #** 20

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**Effective buffer width:**  $\pm$  75 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Big leaf maple, cottonwood, fir, hazelnut, cherry

**Understory species:** Sword fern, Himalayan blackberry, osoberry, nightshade

**Proximity to roads, buildings, parking lots, homes, etc.**

Undeveloped land near school, RR tracks, Kirkland public works shops

**Est. stream slope:** 1%

**Width (typ.)** 4 - 6 feet

**Substrate type:** Sand, silt

**Erosion/Sedimentation:** Silty sedimentation

**LWD prevalence and type:**  $\pm$  4" deciduous

**Prevalence of pools, riffles, runs, etc.:** Mostly glides, runs, shallow pools with short riffles between

**Fish use:** Two small goldfish,  $\pm$  1.5" long, captured just below Peter Kirk Elementary  
- someone presumably released them

**Wildlife species seen<sup>1</sup>:** Songbirds

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 08-0246**

**Basin: Urban Drainage**

**Date: 2/6/98**

**Trib. to: Moss Bay Creek/ Lake Washington**

**Observation # 21**

**Location: Along RR tracks, upstream of Peter Kirk Elementary School**

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**Effective buffer width: 0 - 15 feet**

**Vegetation types<sup>1</sup>-**

**Overstory species: Alder, cottonwood, big leaf maple**

**Understory species: Himalayan blackberry, reed canary grass**

**Proximity to roads, buildings, parking lots, homes, etc.**

Stream splits into several tributaries - ditches on both sides of RR track - school play fields, single family residences

**Est. stream slope: 1%**

**Width (typ.) 2 - 3 feet**

**Substrate type: Sandy, silty, grasses, few gravel patches**

**Erosion/Sedimentation: Erosion associated with ditch cleaning**

**LWD prevalence and type: None**

**Prevalence of pools, riffles, runs, etc.:** Mostly riffles or shallow flow, a few ponded areas due to channel obstructions

**Fish use: Presumed none**

**Wildlife species seen<sup>1</sup>: Songbirds**

**Notes:** Various, 3 or 4, tributaries branch off from the ditches - some areas of native vegetation are present along the ditches

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Forbes Creek Headwater Tribs #

**Basin:** Forbes Creek

**Date:** 2/9/98

**Trib. to:** Forbes, #242

**Observation #** 22

**Location:** Below NE 90th St. and 128th Ave NE

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**Effective buffer width:** Varies considerably: <25 feet to >100 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Willow, vine maple, Alder, hemlock -overstory not too dense

**Understory species:** Salmonberry, sword fern, Himalayan blackberry  
- flows through wetland area, but lots of non-wetland vegetation, too

**Proximity to roads, buildings, parking lots, homes, etc.**

Block of wetland/ open space area in the vicinity of single and multifamily residential

**Est. stream slope:** 1%

**Width (typ.)** 3 - 4 feet

**Substrate type:** Sand

**Erosion/Sedimentation:** Sandy deposition

**LWD prevalence and type:** Occasional 6" diameter and less deciduous

**Prevalence of pools, riffles, runs, etc.:** Some shallow pools present between sandy riffles

**Fish use:** None found downstream along 126th Avenue NE

**Wildlife species seen<sup>1</sup>:** Songbirds

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: #**

**Basin:** Forbes Creek

**Trib. to:** Forbes, #242

**Location:** Upstream of NE 95th St. along 126th Ave

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**Date:** 2/9/98

**Observation #** 23

**Effective buffer width:** 0 - 10 feet; formally landscaped

**Vegetation types<sup>1</sup>-**

**Overstory species:** Birch, blue spruce, cedar saplings

**Understory species:** Red osier dogwood, soft rush, rhododendron, salmonberry, various landscaping plants

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows through landscaped yards

**Est. stream slope:** 1%

**Width (typ.)** 2 - 3 feet

**Substrate type:** Sand, small gravel

**Erosion/Sedimentation:** Sandy deposition

**LWD prevalence and type:** None

**Prevalence of pools, riffles, runs, etc.:** Mostly riffles, runs

**Fish use:** No fish found by test electrofishing along 126th Avenue NE

**Wildlife species seen<sup>1</sup>:** None

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: #**

**Basin:** Forbes Creek

**Trib. to:** Forbes, #242

**Location:** Woodlands Park - 100th St. and 124th Ave.

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**Date:** 2/9/98

**Observation #** 24

**Effective buffer width:** 100 feet +

**Vegetation types<sup>1</sup>-**

**Overstory species:** Willow, few alder

**Understory species:** Hardhack, red osier dogwood, rose, Scotch broom

**Proximity to roads, buildings, parking lots, homes, etc.**

Large wetland/open space near fire station, single- and multi family

**Est. stream slope:** < 1%

**Width (typ.)** 3 - 5 feet

**Substrate type:** Sand/silt

**Erosion/Sedimentation:** Sand/silt deposition

**LWD prevalence and type:** 6" and smaller willow

**Prevalence of pools, riffles, runs, etc.:** Mostly slow runs with glides

**Fish use:** No fish were found upstream of 124th Avenue NE

**Wildlife species seen<sup>1</sup>:** Songbirds

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Forbes Creek # 0242

**Basin:** Forbes Creek

**Date:** 2/9/98

**Trib. to:** Lake Washington

**Observation #** 25

**Location:** Downstream (N) of NE 100th St., west of Slater Ave. (close to Slater Ave in places)

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**Effective buffer width:** 20 - 100 feet +

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, fir, cedar, hemlock

**Understory species:** Salmonberry, sword fern, vine maple, Himalayan blackberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows along Slater Ave., in the vicinity of older, scattered residences

**Est. stream slope:** 2 - 3%

**Width (typ.)** 8 feet

**Substrate type:** Sandy gravel

**Erosion/Sedimentation:** Sand, organic silt deposition

**LWD prevalence and type:** Moderate amounts, second growth, both deciduous and coniferous

**Prevalence of pools, riffles, runs, etc.:** Good alternation between pools and riffles - some pools are well-formed

**Fish use:** Yes, Cutthroat trout upstream and downstream of Slater Ave., 5 - 11' in length.

Fish not found at NE 97th St. crossing, but it is presumed they have access and are there at times

**Wildlife species seen<sup>1</sup>:**

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Forbes Creek # 0242

**Basin:** Forbes Creek

**Date:** 2/9/98

**Trib. to:** Lake Washington

**Observation #** 26

**Location:** Downstream of I - 405 to culvert inlet at business parking lot

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**Effective buffer width:** 75 - 100 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Big leaf maple, cedar, fir

**Understory species:** Salmonberry, devil's club, sword fern, Oregon grape,  
Himalayan blackberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Upstream: Freeway. Downstream: Piped under parking lot. Good, mature mixed second growth forest both sides

**Est. stream slope:** 3 - 5%

**Width (typ.)** 8 - 12 feet

**Substrate type:** Sand at lower end - elsewhere mostly gravelly, but wide range of particle sizes from sand to cobbles

**Erosion/Sedimentation:** Sandy deposition near trash rack at downstream end.  
Moderate, 1 foot high bank scour occasionally elsewhere

**LWD prevalence and type:** Abundant! Medium-large conifer and deciduous

**Prevalence of pools, riffles, runs, etc.:** Good pool and riffle alternation - some well-formed pools

**Fish use:** Presumed Cutthroat since they are found upstream of I - 405

**Wildlife species seen:** (Juvenile Homo sapiens)

**Notes:** Lots of boulders below freeway - 3 feet diameter culvert- very high velocities followed by 2.5 - 3 feet plunge partly onto rocks  
Poor passage prospects

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Forbes Creek # 0242

**Basin:** Forbes Creek

**Date:** 2/10/98

**Trib. to:** Lake Washington

**Observation #** 27

**Location:** Upstream of Forbes Cr. Dr. to RR tracks

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**Effective buffer width:** 25 - 70 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Big leaf maple, alder, fir, cedar

**Understory species:** Devil's club, salmonberry, Himalayan blackberry, sword fern, vine maple, hazelnut

**Proximity to roads, buildings, parking lots, homes, etc.**

Between road and railroad, upper section near industry

**Est. stream slope:** 3 - 5%

**Width (typ.)**  $\pm$  8 - 10 feet upper (where confined by rip rap), 12 - 15 feet lower (more natural setting)

**Substrate type:** Large gravel, cobbles, sandy patches

**Erosion/Sedimentation:** Channel incised 18 - 24" to glacial till over significant portions

**LWD prevalence and type:** Moderate amounts, mostly left-over old growth

**Prevalence of pools, riffles, runs, etc.:** Riffles most prevalent, but good pools common, too

**Fish use:** Cutthroat use confirmed by electrofishing

**Wildlife species seen<sup>1</sup>:** Crows

**Notes:** Stream has "oily" smell

Some kind of dam remnants

18" plunge from culvert below RR access road, just upstream of Forbes Cr. Dr.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Forbes Creek # 0242

**Basin:** Forbes Creek

**Date:** 2/10/98

**Trib. to:** Lake Washington

**Observation #** 28

**Location:** Below Forbes Cr. Dr. to multi-family access bridge (111th Ct. NE)

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**Effective buffer width:** 10 - 30 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Willow, cottonwood saplings (little overstory)

**Understory species:** Himalayan blackberry, Scotch broom

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows through multi family area

**Est. stream slope:** 6 - 8%

**Width (typ.)** 5 - 8 feet

**Substrate type:** Assorted gravel, rip rap

**Erosion/Sedimentation:** 12" vertical banks, typical

**LWD prevalence and type:** A few pieces were placed during construction of this artificial channel

**Prevalence of pools, riffles, runs, etc.:** Mostly high-grade riffles - few pools, shallow pools

**Fish use:** Cutthroat

**Wildlife species seen<sup>1</sup>:** Canada geese, ducks

**Notes:** Bypass channel with cyclone fence on bottom and gabions. Token LWD in non-bypass channel

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Forbes Creek # 0242

**Basin:** Forbes Creek

**Date:** 2/13/98

**Trib. to:** Lake Washington

**Observation #** 29

**Location:** Upstream of 108th Ave., below bypass channel

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**Effective buffer width:** 50 - 75 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, cottonwood, 1 spruce, willow proceeding upstream

**Understory species:** Reed canary grass, Himalayan blackberry, red osier dogwood

**Proximity to roads, buildings, parking lots, homes, etc.**

Single and multi family housing in the area

**Est. stream slope:** 2 - 3%

**Width (typ.)** 8 - 12 feet

**Substrate type:** Gravel, sand

**Erosion/Sedimentation:** 1 foot vertical banks typical, sand filling in behind low beaver dam

**LWD prevalence and type:** Small, deciduous to 4" - beaver debris

**Prevalence of pools, riffles, runs, etc.:** Good pool/riffle alternation helped by beaver dams

**Fish use:** Cutthroat, Coho, Stickleback, Lamprey, Dace found by electrofishing

**Wildlife species seen<sup>1</sup>:** Canada geese, ducks, red wing blackbird

**Notes:** Low beaver dams

Large areas of braided channel

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Creek # 0230

**Basin:** Juanita Creek

**Date:** 2/19/98

**Trib. to:** Lake Washington

**Observation #** 30

**Location:** Mouth to Juanita Drive crossing, in Juanita Beach Park

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**Effective buffer width:** Grass to creek bank - 5 - 10 feet buffer for understory, although trees are present

**Vegetation types<sup>1</sup>-**

**Overstory species:** Cottonwood, smaller oak, pine, spruce

**Understory species:** Lawn, Himalayan blackberry, soft rush, iris

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows past picnic and play areas, maintenance shed

**Est. stream slope:** < 1%

**Width (typ.)** 15 feet

**Substrate type:** Sand near lake, gravel and cobbles nearer road - mostly small, sandy gravel

**Erosion/Sedimentation:** Sandy delta formation at the mouth, banks armored with field stone in concrete

**LWD prevalence and type:** None noted

**Prevalence of pools, riffles, runs, etc.:** Some deeper runs, a few riffles - no distinct pools

**Fish use:** Presumed Coho, Cutthroat, plus incidental use from a variety of Lake Washington species

**Wildlife species seen<sup>1</sup>:** Crows, starlings, sea gulls, mallard ducks

**Notes:** 2 - 4 feet wide by 8 feet high box culvert under Juanita Dr.

Large rock check dam to form outlet pool

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Cr. # 0230

**Basin:** Juanita Creek

**Trib. to:** Lake Washington

**Location:** Upstream of Juanita Dr. to 124th

**Date:** 2/19/98

**Observation #** 31

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**Effective buffer width:** Variable: 5 to 50 feet +

**Vegetation types<sup>1</sup>**

**Overstory species:** Cottonwood, alder, willow

**Understory species:** Himalayan blackberry, salmonberry, red osier dogwood,  
sword fern, ivy, lawn/playfield

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows through park land, multi-family housing, professional bldg.

**Est. stream slope:** 2 - 4%

**Width (typ.)** 10 - 18 feet

**Substrate type:** Lots of rubble armoring here and there - mostly sandy, small gravel

**Erosion/Sedimentation:** Banks are eroding in places: channel appears to have widened over the years in response to increased flows due to build-out in the watershed.

**LWD prevalence and type:** Some willow, alder recruited into the stream

**Prevalence of pools, riffles, runs, etc.:** Fairly (surprisingly) good pool/riffle alternation, undercut banks including some unnatural debris, the channel is fairly complex. Some alder provides live woody debris undercut roots

**Fish use:** Presumed Coho, Cutthroat, and others

**Wildlife species seen<sup>1</sup>:** Songbirds

**Notes:** New rock toe armoring topped with soft gabions

Past professional bldg. - erosion in places throughout

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Cr. # 0230

**Basin:** Juanita Creek

**Trib. to:** Lake Washington

**Location:** Upstream of 124th St. to 100th Ave.

**Date:** 2/19/98

**Observation #** 32

**Effective buffer width:** 20 - 50 feet

**Vegetation types<sup>1</sup>**

**Overstory species:** Cottonwood, alder

**Understory species:** Himalayan blackberry, grasses, Indian plum, Japanese knotweed

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows through back yards of single and multi-family housing,

**Est. stream slope:** 1 - 2%

**Width (typ.)** 12 - 15 feet

**Substrate type:** sandy, small gravel

**Erosion/Sedimentation:** Occasional eroded bank - sandy deposition on margins

**LWD prevalence and type:** Fairly infrequent - 9 large cottonwoods growing forms undercut bank. A few other large cottonwood pieces.

**Prevalence of pools, riffles, runs, etc.:** some well-formed pools, lazy riffles

**Fish use:** Presumed cutthroat, coho

**Wildlife species seen<sup>1</sup>:** Songbirds

**Notes:** Managed in-stream sedimentation pond upstream of 124th St; Cottonwood on island; Large spawning Cutthroat approx. 18" seen on Redd at 129th Pl just upstream of 100th Ave.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Trib. # 0235

**Basin:** Juanita Creek

**Trib. to:** Juanita Cr.

**Location:** Along 129th Pl.

**Date:** 2/19/98

**Observation #** 33

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**Effective buffer width:** 10 - 40 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Big leaf maple, alder, cottonwood

**Understory species:** Himalayan blackberry, sword fern, Indian plum, false bamboo, nightshade

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows along 129th Pl. - single and multi-family housing,

**Est. stream slope:** 2%

**Width (typ.)** 7 - 10 feet

**Substrate type:** medium gravel

**Erosion/Sedimentation:** Little noted except a gravelly deposit upstream of a debris jam

**LWD prevalence and type:** Some alder recruited to the stream - a debris jam

**Prevalence of pools, riffles, runs, etc.:** Good pool/riffle alternation, though pools tend to be shallow, run-like

**Fish use:** Cutthroat only detected by electrofishing this date. Coho not found, but expected. Two large sea-run Cutthroat spawners seen.

**Wildlife species seen<sup>1</sup>:** Crows

**Notes:** Trashy-looking pond at school, piped section, fish passage barrier

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Trib. # 0235

**Basin:** Juanita Creek

**Date:** 2/19/98

**Trib. to:** Juanita Cr.

**Observation #** 34

**Location:** Adjacent to Juanita High School

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**Effective buffer width:** About 15 feet on school side, 30 - 40 feet on S. side of Cr.

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder with lots of 12 - 15 feet cedar coming up from beneath ,  
cottonwood

**Understory species:** Sword fern, Himalayan blackberry, osoberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Playfield to the north, single family housing to the south

**Est. stream slope:** 1%

**Width (typ.)** 8 - 10 feet

**Substrate type:** Sand, some small gravel - gradient increases at upper end of playfield:  
more gravel

**Erosion/Sedimentation:** Sandy and organic silt deposition

**LWD prevalence and type:** Some 4 - 8" alder

**Prevalence of pools, riffles, runs, etc.:** Mostly a low-gradient run - not distinct pools.

This is a canal-like channel dug to allow school construction

**Fish use:** Sticklebacks, but no salmonids found near the upstream end of the playfields

**Wildlife species seen<sup>1</sup>:** Robins and other songbirds

**Notes:** Extensive wetland upstream of school - school playfield fill and beaver activity  
appears to have backed up water, killed trees, now snags, and made wetland more  
extensive

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Totem Lk. Trib.# 0235

**Basin:** Juanita Creek

**Date:** 2/20/98

**Trib. to:** Juanita Cr.

**Observation #** 35

**Location:** Upstream of 405 between on-ramp and Totem Lake Bvd.

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**Effective buffer width:** 10 feet on east side only

**Vegetation types<sup>1</sup>-**

**Overstory species:** 8" alders

**Understory species:** Reed canary grass, Himalayan and evergreen blackberries,  
hardhack

**Proximity to roads, buildings, parking lots, homes, etc.**

Sandwiched between I-405 on-ramp and Totem Lake Bvd.

**Est. stream slope:** < 1%

**Width (typ.)** 8 feet

**Substrate type:** Organic muck

**Erosion/Sedimentation:** Build-up of organic sediments

**LWD prevalence and type:** None

**Prevalence of pools, riffles, runs, etc.:** All slow-moving, fairly deep run

**Fish use:** Not tested

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Piped for a long way below Totem Lake, then piped again under freeway to wetlands near McDonald's

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita trib

**Date:** 2/20/98

**Trib. to:** #0235

**Observation #** 36

**Location:** Just south of Juanita High School

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**Effective buffer width:**

**Vegetation types<sup>1</sup>**

**Overstory species:** Power lines overhead, maple, fir, cedar to the west

**Understory species:** Himalayan blackberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Wooded area to the west, multi-family to the east

**Est. stream slope:** 8%

**Width (typ.)** 4 - 5 feet

**Substrate type:** Gravel, cobbles, hard pan

**Erosion/Sedimentation:** The channel is incised about 2 feet typically

**LWD prevalence and type:** None

**Prevalence of pools, riffles, runs, etc.:** No pools; long, steep riffle

**Fish use:** None known (none expected)

**Wildlife species seen<sup>1</sup>:** Canada geese flew over. Songbirds

**Notes:** Only about 100 feet of the stream is unpiped before confluence with Juanita High Trib.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Cr. # 0230

**Basin:** Juanita Creek

**Trib. to:** Lake Washington

**Location:** 132nd St. and upstream to 108th Ave

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**Date:** 2/20/98

**Observation #** 37

**Effective buffer width:** 20 - 40 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, cedar, big leaf maple

**Understory species:** Salmonberry, Himalayan blackberry, reed canary grass, lawn  
at recovery center

**Proximity to roads, buildings, parking lots, homes, etc.**

Along recovery center

**Est. stream slope:** 2 - 3%

**Width (typ.)** 10 - 15 feet

**Substrate type:** Sandy, medium-sized gravel

**Erosion/Sedimentation:** Sandy deposition, some raw banks at outside of bends. Some  
sections armored with rock

**LWD prevalence and type:** Occasional second growth

**Prevalence of pools, riffles, runs, etc.:** Fairly good meandering, pool formation, habitat  
diversity

**Fish use:** Two adult sea-run Cutthroat spawners seen

**Wildlife species seen<sup>1</sup>:** Mallard ducks

**Notes:** Sewer manhole in the middle of the creek

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Cr.# 0230

**Basin:** Juanita Creek

**Date:** 2/20/98

**Trib. to:** Lake Washington

**Observation #** 38

**Location:** Upstream of 108th - Edith Moulton Park

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**Effective buffer width:** 50 feet + in park

**Vegetation types**<sup>1</sup>-

**Overstory species:** Cottonwood, alder, fir, hazelnut

**Understory species:** Himalayan blackberry, ivy, Oregon grape, salmonberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Edith Moulton Park - school and residential areas nearby.

**Est. stream slope:** 2 - 3%

**Width (typ.)** 8 - 20 feet - lots of broad, sandy-banked areas

**Substrate type:** Sandy, medium gravel

**Erosion/Sedimentation:** Lots of sandy deposition in back waters. Occasional eroded bank.

**LWD prevalence and type:** Mostly 5" and smaller deciduous (cottonwood). One debris jam with good plunge pool.

**Prevalence of pools, riffles, runs, etc.:** Good meandering, pool/riffle alternation - favorable slope for pool/riffle regime

**Fish use:** Cutthroat, Coho, Lamprey caught by electrofishing

**Wildlife species seen**<sup>1</sup>: Songbirds, raccoon tracks, crows, gray squirrel

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Cr. # 0230

**Basin:** Juanita Creek

**Date:** 2/20/98

**Trib. to:** Lake Washington

**Observation #** 39

**Location:** 140th St. to I-405 - county's Juanita flow project site

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**Effective buffer width:** 20 - 40 feet

**Vegetation types<sup>1-</sup>**

**Overstory species:** Alder, cottonwood, willow

**Understory species:** Himalayan blackberry, Scotch broom, reed canary grass, nightshade

**Proximity to roads, buildings, parking lots, homes, etc.**

Stream corridor in the back yards of single family residences

**Est. stream slope:** 2 - 3%

**Width (typ.)** 6 - 10 feet

**Substrate type:** Very sandy, medium-sized gravel

**Erosion/Sedimentation:** Sandy deposition

**LWD prevalence and type:** Some placed as part of enhancement project, otherwise small, transient alder and cottonwood

**Prevalence of pools, riffles, runs, etc.:** Fairly good channel complexity riffles - some well-formed pools

**Fish use:** A pair of large sea-run Cutthroat were seen just below the stream #230/#241 confluence

**Wildlife species seen<sup>1:</sup>**

**Notes:** Many houses on the right bank upstream still use the creek as their yards - lawn down to creek in ravine.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Trib. # 0238

**Basin:** Juanita Creek

**Trib. to:** Juanita Cr.

**Location:** 108th Ave to 132nd St.

**Date:** 2/20/98

**Observation #** 40

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**Effective buffer width:**  $\pm$  30 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Fir, cedar, hemlock, big leaf maple

**Understory species:** Sword fern, salmonberry, Indian plum, Oregon grape

**Proximity to roads, buildings, parking lots, homes, etc.**

Single-family housing at tops of 25 feet deep ravine

**Est. stream slope:** 3 - 4%

**Width (typ.)** 12 - 15 feet

**Substrate type:** Medium gravel, cobbles

**Erosion/Sedimentation:** Minor sandy deposition, 2 feet high eroded banks in places

**LWD prevalence and type:** Good amounts of second growth conifer, though not always in or forming pools

**Prevalence of pools, riffles, runs, etc.:** Some medium-quality pools - could use more cover - fairly steep riffles between

**Fish use:** None detected by electrofishing north of 132nd St.

**Wildlife species seen<sup>1</sup>:** None

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** (Juanita Trib.)

**Basin:** Juanita Creek

**Date:** 2/20/98

**Trib. to:** Juanita Cr.

**Observation #** 41

**Location:** Upstream from confluence with Juanita Cr. - flows south of and parallel to  
NE 140th Street, east of school

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**Effective buffer width:** 100 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Cedar, big leaf maple, hemlock, alder

**Understory species:** Devil's club, salmonberry, sword fern, osoberry, Oregon  
grape

**Proximity to roads, buildings, parking lots, homes, etc.**

Surprisingly isolated - schools, housing in the neighborhood, but stream (near  
mouth at least) is well buffered.

**Est. stream slope:** 3 - 4%

**Width (typ.)** 5 - 7 feet

**Substrate type:** Very sandy, small gravel

**Erosion/Sedimentation:** Sandy deposition, channel appears to be about 18" to 2 feet  
incised.

**LWD prevalence and type:** Some second growth, coniferous LWD, but much of it  
bridges the channel and doesn't help form pools.

**Prevalence of pools, riffles, runs, etc.:** Little pool formation

**Fish use:** Appears unlikely

**Wildlife species seen<sup>1</sup>:** Songbirds

**Notes:** Breaks into more of a deciduous forest upstream.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Trib. # 0241

**Basin:** Juanita Creek

**Date:** 2/26/98

**Trib. to:** Juanita Cr.

**Observation #** 42

**Location:** High Woodlands Park, upstream of I-405 to 119th Avenue NE

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**Effective buffer width:** 75 - 100 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Douglas fir, alder, cottonwood, cedar, hemlock

**Understory species:** Salmonberry, Himalayan blackberry, sword fern, Oregon grape, dewberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Woodland trails along creek, footbridges - otherwise fairly mature second growth coniferous forest - single family residential neighborhood.

**Est. stream slope:** 3 - 4%

**Width (typ.)** 8 - 12 feet

**Substrate type:** Gravel, cobbles

**Erosion/Sedimentation:** Sandy deposition, especially at instream detention adjacent to I-405. Upstream, channel is typically incised.

**LWD prevalence and type:** Some present, coniferous, deciduous. Much bridges channel and is not effective at providing cover or scouring pools.

**Prevalence of pools, riffles, runs, etc.:** Pools are shallow and without cover

**Fish use:** None detected by electrofishing

**Wildlife species seen<sup>1</sup>:** A few songbirds

**Notes:** Instream detention facility at I-405

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Tributary # 0230

**Basin:** Juanita Creek

**Date:** 2/26/98

**Trib. to:** Juanita Cr.

**Observation #** 43

**Location:** South of 145th St., along the SE side of Juanita-Woodinville Way.

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**Effective buffer width:** 10 - 20 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, cottonwood, fir, pine, poplar

**Understory species:** Himalayan blackberry, red osier dogwood, grasses

**Proximity to roads, buildings, parking lots, homes, etc.**

Juanita-Woodinville Way within 15 feet on one side, backyard fences 10 - 20 feet away on the other side

**Est. stream slope:** 1%

**Width (typ.)** 6 feet, uniform

**Substrate type:** Nearly all sand, occasional gravel

**Erosion/Sedimentation:** Sandy deposition in stream bed, channel cut 6 - 12" in places.

**LWD prevalence and type:** Little large debris; limbs, lumber, etc. make up most of the debris.

**Prevalence of pools, riffles, runs, etc.:** Long, shallow run or glide broken up by lumber or limb debris

**Fish use:** None detected by electrofishing

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Enters pipe part way to next cross street (108th Avenue NE). Piped for several blocks where it enters Juanita Creek at a plunge at a pipe outfall.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Trib. "Simonds" # 0236

**Basin:** Juanita Creek

**Date:** 2/26/98

**Trib. to:** Juanita Cr.

**Observation #** 44

**Location:** Mouth at Juanita Cr. to 137th Pl.

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**Effective buffer width:** 50 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, cedar, fir, cottonwood, vine maple

**Understory species:** Himalayan blackberry, salmonberry, sword fern, reed canary grass

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows through single family residence neighborhood,  $\pm$  50 feet buffers

**Est. stream slope:** 2%

**Width (typ.)** 10 - 12 feet

**Substrate type:** Medium gravel, not too sandy

**Erosion/Sedimentation:** Some moderate bank scour - 6 - 18" vertical banks in places.

**LWD prevalence and type:** Fair amounts of medium deciduous - alder

Forms debris jams

**Prevalence of pools, riffles, runs, etc.:** Some very well-formed, deep pools with cover are present.

**Fish use:** Presumed Coho, Cutthroat - both found further upstream

**Wildlife species seen<sup>1</sup>:** Raccoon tracks

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Trib. # 0236

**Basin:** Juanita Creek

**Trib. to:** Juanita Cr.

**Location:** Between 137th and Juanita-Woodinville

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**Date:** 3/4/98

**Observation #** 45

**Effective buffer width:** Typically 30 - 50 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Cottonwood, alder, fir, hemlock

**Understory species:** Himalayan blackberry, ivy, salmonberry, sword fern, Oregon grape

**Proximity to roads, buildings, parking lots, homes, etc.**

Single family residential neighborhood

**Est. stream slope:** 3%

**Width (typ.)** 9 - 11 feet

**Substrate type:** Small to medium gravel, some imported armoring boulders and gravel

**Erosion/Sedimentation:** One severely eroded bank location (see below). Lots of artificially armored bank -with rock. Sandy deposition.

**LWD prevalence and type:** Moderate amounts, mostly medium "debris jam" type stuff.

**Prevalence of pools, riffles, runs, etc.:** Some well-formed pools

**Fish use:** Presumed Coho and Cutthroat because they were found further upstream

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Very massive bank failure - 12 feet high vertical, sandy bank, right bank  $\pm$  100 feet upstream of 137th; Sewer manhole next to stream; Sewer appears to parallel and lie under the stream.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Trib. # 0236

**Basin:** Juanita Creek

**Date:** 3/5/98

**Trib. to:** Juanita Cr.

**Observation #** 46

**Location:** Juanita-Woodinville Way to 100th Ave.

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**Effective buffer width:** 0 - 20 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Some alder, poplar, landscaping trees

**Understory species:** Grass (lawn), ivy, Himalayan blackberry, landscaping shrubbery

**Proximity to roads, buildings, parking lots, homes, etc.**

Winds closely between houses - mowed right down to the creek in many places

**Est. stream slope:** 3 - 4%

**Width (typ.)** 6 feet

**Substrate type:** Medium gravel

**Erosion/Sedimentation:** Modest erosion, little sedimentation

**LWD prevalence and type:** Little present - winds through yards - people tend to keep the creek "cleaned up"

**Prevalence of pools, riffles, runs, etc.:** Mostly runs, riffles

**Fish use:** Coho, Cutthroat present - at least at Juanita-Woodinville Way

**Wildlife species seen<sup>1</sup>:** None

**Notes:**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Juanita Trib. # 0236

**Basin:** Juanita Creek

**Date:** 3/5/98

**Trib. to:** Juanita Cr.

**Observation #** 47

**Location:** Upstream of 100th Ave along Simonds Rd.

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**Effective buffer width:** 50 - 75 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, cottonwood, few fir

**Understory species:** Salmonberry, Himalayan blackberry, reed canary grass

**Proximity to roads, buildings, parking lots, homes, etc.**

Single and multi-family residences near 100th, Simonds Rd. nearby

**Est. stream slope:** 2%

**Width (typ.)** Braided in places 10 - 25 feet

**Substrate type:** Medium gravel, sand

**Erosion/Sedimentation:** Sandy deposition on very wide, active flood plain

**LWD prevalence and type:** Lots of limbs, smaller deciduous debris present - forms small jams in places

**Prevalence of pools, riffles, runs, etc.:** Braided channel - few well-formed pools

**Fish use:** Cutthroat were captured by electrofishing in this section.

**Wildlife species seen<sup>1</sup>:** Robins

**Notes:** King County in-stream detention pond at 100th Ave; 3.5 feet drop out of box culvert below 100th -no fish passage.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0238**

**Basin: Juanita Creek**

**Trib. to: Juanita Cr.**

**Location: Upstream of I-405 at 132nd St. to 132nd St.**

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**Date: 3/16/98**

**Observation # 48**

**Effective buffer width: 0 - 20 feet**

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, fir, cottonwood, pine, ornamentals - scattered amongst cleared and landscaped areas

**Understory species:** Landscaping shrubs, lawn, reed canary grass (lower end), Himalayan blackberry, (upper end), ivy

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows mostly through yard areas in multi-family housing, through hospital and clinic grounds

**Est. stream slope: 1 - 2%**

**Width (typ.) 5 - 8 feet**

**Substrate type: Sand, some small gravel**

**Erosion/Sedimentation: Some sandy deposition along margins**

**LWD prevalence and type: None noted**

**Prevalence of pools, riffles, runs, etc.: Mostly glides, runs, a few pools**

**Fish use: None found by electrofishing upstream of Totem Lake Blvd.**

**Wildlife species seen:<sup>1</sup> Songbirds, gray squirrel, mallard duck, other ducks**

**Notes:** An instream pond lies near multi-family -impassable trash rack/stand pipe outlet; Culvert under 120th Ave has a plunge at the outfall and is a migration barrier; Large in-stream pond at hospital/clinic just downstream of 132nd.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0238**

**Basin: Juanita Creek**

**Trib. to: Juanita Cr.**

**Location: Upstream of 132nd St. at 121st Ave NE.**

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**Date: 3/16/98**

**Observation # 49**

**Effective buffer width: 0 feet**

**Vegetation types<sup>1</sup>-**

**Overstory species: 3 pine, 1 birch**

**Understory species: Mowed grass**

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows through a park area...neighborhood baseball diamond

**Est. stream slope: 2 - 3%**

**Width (typ.) 3 - 7 feet**

**Substrate type: Mostly sand, some medium gravel**

**Erosion/Sedimentation: Little, considering narrow channel, little vegetation, evidence of high flows**

**LWD prevalence and type: None**

**Prevalence of pools, riffles, runs, etc.: A few pools present between riffles**

**Fish use: Presumed none - 2 locations tested without fish downstream**

**Wildlife species seen<sup>1</sup>: Crow**

**Notes: Stream looks placid, but debris line shows evidence of some fairly high flows**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0238**

**Basin: Juanita Creek**

**Date: 3/16/98**

**Trib. to: Juanita Cr.**

**Observation # 50**

**Location: Upstream of 124th Ave: at confluence of tribs. #0238, #239**

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**Effective buffer width: 50 feet +**

**Vegetation types<sup>1</sup>-**

**Overstory species: Cottonwood, big leaf maple, fir, alder**

**Understory species: Himalayan blackberry, Indian plum, reed canary grass, sword fern**

**Proximity to roads, buildings, parking lots, homes, etc.**

Residential neighborhood, but creek has a well-forested buffer

**Est. stream slope: 2 - 4%**

**Width (typ.) 6 - 8 feet**

**Substrate type: Sand, some gravel**

**Erosion/Sedimentation: Nickpoint on each stream above confluence. Braided channel with sand and gravel deposits through forest.**

**LWD prevalence and type: Cottonwood roots across the channel tend to function as LWD**

**Prevalence of pools, riffles, runs, etc.: One very deep plunge pool near confluence, a few other less well-formed pools**

**Fish use: Presumed none**

**Wildlife species seen<sup>1</sup>: Songbirds**

**Notes: Creek enters culvert some  $\pm$  80 feet before 124th Ave; Ponded wetland over culvert. Evidence of recent "gullywasher"; This year's reed canarygrass bent over; 3 - 4 feet high (deep) incised channel on E. fork (= #0238); Flashy flows, incised channel, deposition.**

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0231**

**Basin:** Juanita Creek

**Date:** 3/16/98

**Trib. to:** Juanita Cr.

**Observation #** 51

**Location:** Upstream of confluence, upstream of trash rack at 95th Pl. and 125th Pl.

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**Effective buffer width:** 0 - 20 feet -grassy, mowed area

**Vegetation types<sup>1</sup>-**

**Overstory species:** 1 weeping willow, 1 hazelnut

**Understory species:** Himalayan blackberry, reed canary grass, mowed lawn

**Proximity to roads, buildings, parking lots, homes, etc.**

Single family residential neighborhood

**Est. stream slope:** 4%

**Width (typ.)** 6 - 7 feet

**Substrate type:** Gravelly sand

**Erosion/Sedimentation:** Deposition around culvert inlet

**LWD prevalence and type:** None

**Prevalence of pools, riffles, runs, etc.:** No pools, 1 riffle

**Fish use:** None detected by electrofishing on 3/17

**Wildlife species seen<sup>1</sup>:** None

**Notes:** 4 feet diameter CMP piped outfall to Juanita Creek; 3 feet plunge onto boulders - impassable; Trash rack, etc. end of cul de sac - NE 125th Pl; Stream has various piped sections.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0231**

**Basin:** Juanita Creek

**Date:** 3/17/98

**Trib. to:** Juanita Cr.

**Observation #** 52

**Location:** Dead end of NE 128th Ln. Ravine down bluff

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**Effective buffer width:** 100 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Big leaf maple, hemlock, cedar, fir, vine maple, alder

**Understory species:** Sword fern, ivy, Indian plum, nettles, Oregon grape, salmonberry, devil's club (some reed canarygrass, Himalayan blackberry)

**Proximity to roads, buildings, parking lots, homes, etc.**

Creek flows through wooded ravine - drains single family neighborhoods on plateau

**Est. stream slope:** 4 - 5%

**Width (typ.)** 10 - 12 feet

**Substrate type:** Gravel, sand, few cobbles

**Erosion/Sedimentation:** 3 feet high scoured banks and sandy deposition common

**LWD prevalence and type:** Moderate amounts of second growth, mostly deciduous present, but fail to form many pools. A few debris jams with some old growth debris

**Prevalence of pools, riffles, runs, etc.:** Few pools - mostly long, steep, near continuous riffles (in fact, decent pools to electrofish in couldn't be found)

**Fish use:** None detected by electrofishing

**Wildlife species seen<sup>1</sup>:** Songbirds -robins

**Notes:** Non-native trees and shrubs present near old "homestead"; Erosion at storm drain outfall from road at top of slope (NE 131st Way); Incised channel sections in "north fork" above confluence; Channel cut up to 8 -10 feet.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** "Champagne Creek"

**Basin:** Lake Washington

**Date:** 3/17/98

**Trib. to:** Lake Washington

**Observation #** 53

**Location:** Mouth and upstream at Champagne Point. Near dead end of NE 112th St.

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**Effective buffer width:** 50 - 100 feet +

**Vegetation types<sup>1</sup>**

**Overstory species:** Cedar, big leaf maple, alder, fir, cottonwood

**Understory species:** Sword fern, ivy, salmonberry, skunk cabbage, devils club, Himalayan blackberry, Indian plum

**Proximity to roads, buildings, parking lots, homes, etc.**

Densely wooded ravine with houses at the top.

**Est. stream slope:** 2 - 4%

**Width (typ.)** 10 - 25 feet (braided, depositional in places)

**Substrate type:** Very sandy gravel

**Erosion/Sedimentation:** Sandy gravel deposits cause braided flood plain in lower section. Trees killed, snags created.

**LWD prevalence and type:** Moderately abundant, some is remnant old growth

**Prevalence of pools, riffles, runs, etc.:** A few small, but high quality pools with cover are formed around old growth items

**Fish use:** 2 Cutthroat caught by electrofishing from one well-formed pool

**Wildlife species seen<sup>1</sup>:** None

**Notes:** ± 30" CMP storm drain outfall; < 0.5 cfs this date, but evidence of much higher flows; Very broad depositional flood plain nearer mouth - killing trees, snags formed Channelized through yards of several houses at mouth

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Denny Creek # 0228

**Basin:** Juanita Creek

**Date:** 3/17/98

**Trib. to:** Lake Washington

**Observation #** 54

**Location:** Upstream from mouth at Denny Park. In park.

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**Effective buffer width:** 20 - 40 feet - Lawn and park amenities beyond

**Vegetation types<sup>1</sup>**

**Overstory species:** Cottonwood, cedar, fir, big leaf maple

**Understory species:** Ivy, sword fern, snowberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Park lawns and amenities beyond top of 8 feet stream banks

**Est. stream slope:** 2 - 3%

**Width (typ.)** 6 - 10 feet

**Substrate type:** Large gravel, some sand

**Erosion/Sedimentation:** One badly eroded, 30 feet long bank section 100 feet below Holmes Pt. Rd. - right bank. Some moderate toe erosion elsewhere.

**LWD prevalence and type:** (Live) tree roots, 1 stump, few misc., 3 log weirs below road.

**Prevalence of pools, riffles, runs, etc.:** Few well-formed pools except below some weirs at road culvert (Holmes Pt. Rd.)

**Fish use:** Numerous Cutthroat, 1 Coho caught below Holmes Pt. Dr. culvert. 1 Sculpin upstream.

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Gravelly delta at mouth; Parking lot upstream of Holmes Pt. Rd. borders closely to creek; Buffer could be widened somewhat and still provide parking.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Denny Creek # 0228

**Basin:** Lake Washington

**Date:** 3/17/98

**Trib. to:** Lake Washington

**Observation #** 55

**Location:** Ravine upstream of Denny Park parking lot

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**Effective buffer width:** 100 feet +

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, cedar, fir, big leaf maple, vine maple

**Understory species:** Indian plum, sword fern, salmonberry, elderberry, skunk cabbage, stink currant

**Proximity to roads, buildings, parking lots, homes, etc.**

Lower ravine is fairly well isolated, forested

**Est. stream slope:** 4%

**Width (typ.)** 10 - 12 feet

**Substrate type:** Large gravel, some sand, few cobbles

**Erosion/Sedimentation:** 3 - 4 feet streambanks common with moderate erosion

**LWD prevalence and type:** Common, includes old growth conifer, newer conifer and deciduous

**Prevalence of pools, riffles, runs, etc.:** Mostly riffles, but some well-formed pools at woody debris

**Fish use:** Cutthroat, 1 Sculpin, Coho have access, could well be present

**Wildlife species seen<sup>1</sup>:** Robin

**Notes:** Forest is very mature for second growth - some very large cedars and firs

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Denny Creek # 0228

**Basin:** Lake Washington

**Date:** 3/18/98

**Trib. to:** Lake Washington

**Observation #** 56

**Location:** Below Juanita Dr.

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**Effective buffer width:** 30 - 50 feet left side (Juanita Dr.), 100 feet + right side

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, big leaf maple, fir, cedar, vine maple

**Understory species:** Sword fern, pig-a-back, salmonberry, Indian plum

**Proximity to roads, buildings, parking lots, homes, etc.**

Forest to the west, Juanita Dr. to the east with a 30 - 50 feet buffer

**Est. stream slope:** 3 - 4%

**Width (typ.)** 10 - 14 feet

**Substrate type:** Large gravel, cobbles, some boulders

**Erosion/Sedimentation:** Banks are eroding in places

**LWD prevalence and type:** Good amounts, wide variety from old growth conifer to alder.

**Prevalence of pools, riffles, runs, etc.:** Riffles prevalent, some pools present, but not too many are deep or well-formed.

**Fish use:** Salmonid fish use indicated on King Co. map, but none detected by electrofishing 3/18/98

**Wildlife species seen<sup>1</sup>:** Raccoon tracks

**Notes:** 2-foot-diameter concrete culvert under Juanita Dr. - long, old; Tires, litter, pickup canopy, etc. in stream.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name:** Denny Creek # 0228

**Basin:** Lake Washington

**Date:** 3/18/98

**Trib. to:** Lake Washington

**Observation #** 57

**Location:** Upstream of Juanita Dr.

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**Effective buffer width:** 25 - 40 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Alder, maple, few fir and cedar

**Understory species:** Salmonberry, Himalayan blackberry, Indian plum, sword fern

**Proximity to roads, buildings, parking lots, homes, etc.**

Mowed meadow areas and the mowed yard areas of houses

**Est. stream slope:** 2%

**Width (typ.)** 8 - 10 feet

**Substrate type:** Large gravel, some sand

**Erosion/Sedimentation:** Minor

**LWD prevalence and type:** Some alder.

**Prevalence of pools, riffles, runs, etc.:** Good pool/riffle alternation, but the pools are shallow.

**Fish use:** None detected by electrofishing 3/18/98

**Wildlife species seen<sup>1</sup>:** Songbirds

**Notes:** Meadow between creek and road

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0227**

**Basin:** Lake Washington

**Date:** 3/19/98

**Trib. to:** Lake Washington

**Observation #** 58

**Location:** 62nd Ave NE, Holmes Pt. Dr. Downstream of 62nd Ave NE.

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**Effective buffer width:** 0 - 25 feet

**Vegetation types<sup>1</sup>-**

**Overstory species:** Cedar, big leaf maple, holly, hazelnut

**Understory species:** Ivy, Himalayan blackberry, sword fern, skunk cabbage, salmonberry

**Proximity to roads, buildings, parking lots, homes, etc.**

Flows closely between residences that lie closely nestled on and near the beach.  
Lawns to creek edge - rock-lined channel

**Est. stream slope:** 3 - 4%

**Width (typ.)** 4 - 6 feet

**Substrate type:** Very sandy, some small gravel

**Erosion/Sedimentation:** Sandy deposition -volume behind dam is completely full

**LWD prevalence and type:** One large second growth conifer bridged log noted

**Prevalence of pools, riffles, runs, etc.:** Pools not noted

**Fish use:** May have access and limited use below dam -  $\pm$ 500 feet above lake.  
Resident who lives near mouth says "no fish."

**Wildlife species seen<sup>1</sup>:** None

**Notes:** Unusual sediment-filled concrete dam, 12 feet high. Piped 8 feet plunge at outfall. -definite migration barrier. Spillway concrete work being done.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0227**

**Basin:** Lake Washington

**Date:** 3/19/98

**Trib. to:** Lake Washington

**Observation #** 59

**Location:** Upstream of 62nd Ave NE, along Holmes Pt. Dr.

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**Effective buffer width:** 10 - 30 feet along Holmes Pt. Dr., 100 feet on north side

**Vegetation types<sup>1</sup>:**

**Overstory species:** Big leaf maple, alder, cedar

**Understory species:** Sword fern, salmonberry, Himalayan blackberry, Indian plum

**Proximity to roads, buildings, parking lots, homes, etc.**

Homes on surrounding plateau, Holmes Point Drive is adjacent.

**Est. stream slope:** 4 - 6%

**Width (typ.)** 7 - 10 feet

**Substrate type:** Very sandy, small gravel

**Erosion/Sedimentation:** Sandy deposition is continuous along margins - ravine sideslope failures noted

**LWD prevalence and type:** Fairly abundant, assorted varieties, old growth conifer to newer deciduous

**Prevalence of pools, riffles, runs, etc.:** Riffles predominate -shallow pools at woody debris, but the high sediment supply keeps them from deepening.

**Fish use:** None detected by electrofishing this date.

**Wildlife species seen<sup>1</sup>:** Songbirds

**Notes:** Pervasive sandy deposition, flows are shallow; Hard to find a pool deep enough to fish in.

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**Stream name: # 0226**

**Basin:** Lake Washington  
**Trib. to:** Lake Washington  
**Location:** St. Edward State Park

**Date:** 3/19/98  
**Observation #** 60

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**Effective buffer width:** 100 feet +

**Vegetation types<sup>1</sup>-**

**Overstory species:** Big leaf maple, alder, few fir, cedar, hemlock

**Understory species:** Salmonberry, sword fern, pig-a-back, red huckleberry, red elderberry, Indian plum

**Proximity to roads, buildings, parking lots, homes, etc.**

Walking trails near the stream. Playfields, parking lots, bldgs. near headwater.  
Otherwise broad expanses of mostly-maple forest.

**Est. stream slope:** 3 - 5%

**Width (typ.)** 3 - 4 feet

**Substrate type:** Sandy, small and medium gravel

**Erosion/Sedimentation:** Limited bank erosion, sideslope failure

**LWD prevalence and type:** Fairly abundant, various types, including old growth

**Prevalence of pools, riffles, runs, etc.:** Very small, circular pools, separated by relatively longer riffles

**Fish use:** Small creek -significant fish use questionable, but not specifically tested.  
Appears too small for Coho, maybe Cutthroat too.

**Wildlife species seen<sup>1</sup>:** Red tailed hawk, robins, songbirds, Steller jay

**Notes:** Noted a ravine sideslope failure even though watershed is undeveloped. No delta at mouth; 1.5 feet plunge over armor rock at mouth; Stream flow  $\pm$  0.25 cfs

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<sup>1</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

# Kirkland Qualitative Electrofishing Survey Results Summary

TEST #	DATE	PERSON	STREAM NAME	STREAM CROSS		STREAM FISHING		SIZE (IN)			
				NUMBER	STREET	LENGTH	TIME (S.)	SPECIES	NUMBER	RANGE	M/E*
1	1/19/98	G. Johnston	Cochran	253	Below Lk. WA Blvd.	100'	81	Cutthroat	5	3.3 - 4.1	M
2	1/19/98	G. Johnston	Cochran	253	Above NE 38th	200'	127	Coho	8	3.5 - 4.4	M
3	1/19/98	G. Johnston	Cochran	253	Above 108th Ave.	200'	163	Lamprey	2	3.8 - 6.0	M
4	1/20/98	G. Johnston	Yarrow	252	108th and Northup	100'	131	Cutthroat	10	3 - 8	E
5	1/20/98	G. Johnston	Yarrow	252	Below NE 33rd Pl.	100'	53	Coho	7	2.5 - 3	E
6	1/20/98	G. Johnston	Yarrow	252	N. of NE 41st St.	100'	87	Cutthroat	7	3 - 5	E
7	2/5/98	G. Johnston	Carillon		Upstream of RR	300'	155	Cutthroat	5	5	E
8	2/5/98	G. Johnston	NW College		Lakeview to RR	300'	309	No fish			
9	2/5/98	G. Johnston	NW College		NE 60th & 106th Ave	75'	61	No fish			
10	2/5/98	G. Johnston	Houghton		Below State Ave.	200'	158	No fish			
11	2/5/98	G. Johnston	Everest Cr.	244	Everest Park	400'	236	No fish			
12	2/5/98	G. Johnston	Everest Cr.	244	Kirkland Ave. Culv. Inlet	100'	86	No fish			
13	2/5/98	G. Johnston	Moss Bay Cr.	243	Below 2nd Ave.	100'	55	No fish			
14	2/6/98	G. Johnston	Moss Bay (trib.)	246	At Peter K. Elem.	150'	191	Goldfish	2	1.5	E
15	2/9/98	G. Johnston	Forbes Cr.	242	Slater Ave, both sides	50'	117	Cutthroat	11	5 - 11	E
16	2/9/98	G. Johnston	Forbes Cr.	242	NE 97th St.	30'	46	No fish **			
17	2/10/98	G. Johnston	Forbes (trib.)		Downstr. of 124th Ave	150'	216	Cutthroat	1	9	E
18	2/10/98	G. Johnston	Forbes (trib.)		126th Ave. & 95th St.	200'	168	No fish			
19	2/10/98	G. Johnston	Forbes Cr.	242	Below RR	150'	124	Cutthroat	16	4 - 11	E
20	2/13/98	G. Johnston	Forbes Cr.	242	108th Ave	150'	221	Cutthroat	6	4.7 - 7.4	M
21	2/19/98	G. Johnston	Juanita (trib.)	235	102nd Ave., 129th Pl.	50'	96	Coho	7	4.1 - 4.6	M
22	2/20/98	G. Johnston	Juanita (trib.)	235	E. side Juanita High	100'	222	Lamprey	2	3.4 - 3.7	M
								Dace	5	1.9 - 2.8	M
								Stickleback	4	1.9 - 2.4	M
								Cutthroat	12	4 - 9	E
								Cutthroat	1	17	M
								Stickleback	4		

\* Measured/Estimated

\*\* Not to be taken as proof of non-use; fish have access.

## Kirkland Qualitive Electrofishing Survey Results Summary

TEST #	DATE	PERSONS	STREAM		STREAM LENGTH	FISHING TIME (S.)	SPECIES	NUMBER	SIZE (IN.)		M/E*
			NAME	CROSS STREET					RANGE		
23	2/20/98	G. Johnston	Juanita Cr.	230	Edith Moulten Park	100'	72	Cutthroat	9	3-7	E
								Coho	1	3.5	E
								Lamprey	1	4.5	E
24	2/20/98	G. Johnston	Juanita (trib.)	238	132nd St, 116th Ave	150'	117	No fish			
25	2/26/98	G. Johnston	Juanita Cr.	241	Upstream of I-405	200'	151	No fish			
26	2/26/98	G. Johnston	Juanita (trib.)	230	S. of 145th St	200'	145	No fish			
27	3/5/98	G. Johnston	Juanita (trib.)	236	Juanita-Woodinville Way	50'	100	Coho	3	4	E
								Cutthroat	4	7-10	E
28	3/16/98	G. Johnston	Juanita (trib.)	238	Above Totem Lk. Bvd.	150'	164	No fish			
29	3/16/98	G. Johnston	Juanita (trib.)	236	along Simonds	100'	24	Cutthroat	5	5-8	E
30	3/17/98	G. Johnston	Juanita (trib.)	231	End of NE 128th Ln.	200'	145	No fish			
31	3/17/98	G. Johnston	Juanita (trib.)	231	95th Pl, NE 125th Pl.	100'	45	No fish			
32	3/17/98	G. Johnston	Champagne Cr.		NE 112th St.	100'	53	Cutthroat	2	5,7	E
33	3/17/98	G. Johnston	Denny Cr.	228	Holmes Pt. Dr.	120'	122	Cutthroat	21	2-9	E
								Coho	1	3	E
								Sculpin	1	4	E
34	3/18/98	G. Johnston	Denny Cr.	228	Below Juanita Dr.	250'	174	No fish			
35	3/18/98	G. Johnston	Denny Cr.	228	Above Juanita Dr.	300'	192	No fish			
36	3/19/98	G. Johnston	Unnamed	227	Above 62nd Ave.	300'	125	No fish			

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\* Measured/Estimated

\*\* Not to be taken as proof of non - use; fish have access.

## APPENDIX B. WETLAND FIELD FORMS

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**WETLAND NAME:** Yarrow 1

**JURISDICTION:** Kirkland

**LOCATION (S, T, R):** 17, 25N, 5E; 18, 25N, 5E  
19, 25N, 5E; 20, 25N, 5E

**DATE:** 2/26/98

**ACREAGE<sup>1</sup>:** 73.60

**BASIN:** Yarrow Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)            PSS (scrub/shrub)            PEM (emergent)  
POW (open water-unknown bottom)  
LAB (lacustrine littoral aquatic bed)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, willow spp.  
Subcanopy:  
Understory: Himalayan blackberry, salmonberry, hardhack, red-osier dogwood  
Ground layer: reed canary grass, cat tail

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Associated with Yarrow Bay on Lake Washington, Cochran Springs Creek, and Yarrow Creek

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

sparrow, red winged blackbird, robin, large hawk nest

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Complex wetland system with a variety of plant associations; Valuable wildlife habitat.

1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Yarrow 2

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 16, 25N, 5E  
**ACREAGE<sup>1</sup>:** 6.04

**DATE:** 2/26/98  
**BASIN:** Yarrow Creek

---

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                  PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood, wester red cedar, western hemlock  
Subcanopy:  
Understory: Himalayan blackberry, salmonberry  
Ground layer: reed canary grass, cattail, bittersweet nightshade, buttercup, skunk cabbage, water parsley, small-fruited bulrush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Outlet enters culvert under road which joins Yarrow 3

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	__x__	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	__x__	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	__x__	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	__x__	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	__x__	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	__x__	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

chickadee

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Numerous snags; Noisy with freeway so close; Wetland is located between I-405 and 116th Avenue NE; Several alders have been recently cut down.

---

1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Yarrow 3

JURISDICTION: Kirkland

LOCATION (S, T, R): 17, 25N, 5E

ACREAGE<sup>1</sup>: 3.42

DATE: 2/26/98

BASIN: Yarrow Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)

PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood, western redcedar

Subcanopy: willow spp., Indian plum

Understory: Himalayan blackberry, salmonberry, red-osier dogwood

Ground layer: reed canary grass, cattail, bittersweet nightshade, softtrush, buttercup, skunk cabbage, water parsley

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Standing water; Yarrow Creek passes through wetland.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	_____	___x___	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	___x___	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	_____	x _____	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	_____	___x___	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	x _____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

flicker, robin, winter wren

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Wetland fringe extends southward along stream next to road.

**OTHER OBSERVATIONS:**

Debris piles and waste along southeast corner; A few driveways intersect wetland

1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Urban 1

JURISDICTION: Kirkland  
LOCATION (S, T, R): 5, 25N, 5E  
ACREAGE<sup>1</sup>: 0.81

DATE: 1/20/98  
BASIN: Urban Drainage

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                      PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: black cottonwood, red alder  
Subcanopy:  
Understory: salmonberry, Himalayan blackberry  
Ground layer: reed canary grass, cattails, smallfruited bulrush, bittersweet nightshade

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Two streams braid through the wetland

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	___x___	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	___x___	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Undeveloped slopes on both sides of the wetland serve as buffer; Adjacent to railroad tracks.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Urban 2

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 5, 25N 5E  
**ACREAGE<sup>1</sup>:** 1.57

**DATE:** 1/20/98  
**BASIN:** Urban Drainage

---

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                      PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: black cottonwood, red alder, bigleaf maple  
Subcanopy:  
Understory: salmonberry, Himalayan blackberry  
Ground layer:

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Wetland is headwater of stream

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	___x___	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	___x___	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

common crow

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Several snags; Adjacent to railroad tracks.

---

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Urban 3

JURISDICTION: Kirkland  
LOCATION (S, T, R): 5, 25N, 5E  
ACREAGE<sup>1</sup>: 1.87

DATE: 1/20/98  
BASIN: Urban Drainage

---

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy:  
Understory: salmonberry, Himalayan blackberry  
Ground layer: soft rush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Open channel stream passes through wetland.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	x	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

juncos

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Urban 4

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):**  
**ACREAGE<sup>1</sup>:** 0.45

**DATE:** 3/19/98  
**BASIN:** Urban Drainage

**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy:  
Understory: giant knotweed, Himalayan blackberry  
Ground layer: skunk cabbage, water cress, buttercup, small-fruited bulrush, water parsley

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Small stream flows through wetland; Groundwater seeps also contribute to hydrology.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>		<u>Moderate quality</u>		<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x	_____		_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___		_____		_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___		_____		_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___		_____		_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___		_____		_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x	_____		_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

house finch, junco, robin

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Many seeps coming out of hillside.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Urban 5

**JURISDICTION:** Kirkland

**LOCATION (S, T, R):**

**ACREAGE<sup>1</sup>:** 0.04

**DATE:** 3/19/98

**BASIN:** Urban Drainage

---

**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, willow spp.

Subcanopy:

Understory: Himalayan blackberry

Ground layer: buttercup, soft rush, small-fruited bulrush, horsetail, reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Small stream flows through wetland; A leaky well is also contributing to hydrology.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

Very small wetland.

**OTHER OBSERVATIONS:**

Opportunity on Van Aalst Park property to enhance stream.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Urban 6

JURISDICTION: Kirkland

LOCATION (S, T, R):

ACREAGE<sup>1</sup>: 0.06

DATE: 3/19/98

BASIN: Urban Drainage

VEGETATION CLASS(es) (COWARDIN):

PFO (forested)

PSS (scrub/shrub)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy: red alder

Subcanopy:

Understory: Himalayan blackberry, giant knotweed, salmonberry

Ground layer: skunk cabbage, buttercup, horsetail

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

Small stream flows through wetland.

GENERAL FUNCTIONS:	Low quality	Moderate quality	High quality
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	x	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

OBSERVATION ABOUT SIZE AND/OR SHAPE:

Very small wetland.

OTHER OBSERVATIONS:

A few snags; Wetland is fenced off with "Do Not Enter" signs.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Urban 7

JURISDICTION: Kirkland

LOCATION (S, T, R): 8, 25N, 5E

ACREAGE<sup>1</sup>: 0.13

DATE: 1-27-98

BASIN: Urban Drainage

---

**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood

Subcanopy:

Understory: Himalayan blackberry

Ground layer: lady fern

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Inlet is a stormwater drain; Probably drains through residential area into a small stream adjacent to Kirkland Avenue.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>		<u>Moderate quality</u>		<u>High quality</u>
Water quality maintenance					
Consider flow, hydrology, veg cover, location	_____	x	_____		_____
Flood/stormwater storage					
Consider size, location, forest cover, outlet	_____	x	_____		_____
Baseflow/groundwater support					
Consider size, location, hydrology, fish pops	_____	x	_____		_____
Erosion/shoreline protection					
Consider veg type/density @OHW, extent, development	_____x_____		_____		_____
Cultural/recreational					
Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____		_____
Wildlife habitat					
Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x	_____		_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Urban 8

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 5, 25N, 5E  
**ACREAGE<sup>1</sup>:** 0.86

**DATE:** 1-27-98  
**BASIN:** Urban Drainage

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**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy: willow spp.  
Understory: Himalayan blackberry  
Ground layer: soft rush, small-fruited bulrush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	_____	x	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	x	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	___x___	_____	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	___x___	_____	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**  
Slopes associated with wetland.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Urban 9

JURISDICTION: Kirkland  
LOCATION (S, T, R): 8, 25N, 5E  
ACREAGE<sup>1</sup>: 2.16

DATE: 1-27-98  
BASIN: Urban Drainage

---

**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, willow spp.  
Subcanopy:  
Understory: Himalayan blackberry, salmonberry  
Ground layer: horsetail, small-fruited bulrush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Two streams pass through wetland area.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	___x___	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

juncos, song sparrow, signs of woodpeckers

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Several small alder snags.

---

1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Urban 10

JURISDICTION: Kirkland  
LOCATION (S, T, R): 8, 25N, 5E  
ACREAGE<sup>1</sup>: 0.13

DATE: 1-27-98  
BASIN: Urban Drainage

**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood  
Subcanopy:  
Understory: Himalayan blackberry, English ivy  
Ground layer:

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

A small isolated depression.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Adjacent to Everest Park and Urban 11.

**OTHER OBSERVATIONS:**

1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Urban 11

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 8, 25N, 5E  
**ACREAGE<sup>1</sup>:** 7.01

**DATE:** 1-27-98  
**BASIN:** Urban Drainage

**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)                  PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, western red cedar, black cottonwood, bigleaf maple  
Subcanopy:  
Understory: salmonberry, bittersweet nightshade, Himalayan blackberry  
Ground layer: cattail, small-fruited bulrush, lady fern

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Everest Creek passes through wetland; many braided swales also pass through wetland

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	___x___	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

Coyote, kinglets, chickadee

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Adjacent to Everest Park and connected to Everest Creek

**OTHER OBSERVATIONS:**

Numerous alder snags; Sewer and water lines pass through wetland; An approximately 10-15' wide trail passes through wetland; Trail is probably associated with sewer and water lines; Invasive plant species include English Ivy and Holly.

1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Urban 12

JURISDICTION: Kirkland  
LOCATION (S, T, R): 9, 25N, 5E  
ACREAGE<sup>1</sup>: 1.67

DATE: 1-27-98  
BASIN: Urban Drainage

VEGETATION(es) (COWARDIN):

PSS (scrub/shrub)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy: black cottonwood  
Subcanopy: willow spp.  
Understory: hardhack, evergreen blackberry, Himalayan blackberry  
Ground layer:

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

Appears to be hydrologically isolated

GENERAL FUNCTIONS:	Low <u>quality</u>	Moderate <u>quality</u>	High <u>quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x _____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x _____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x _____	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

OTHER OBSERVATIONS:

Completely surrounded by development

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Urban 13

**JURISDICTION:** Kirkland

**LOCATION (S, T, R):** 17, 25N, 5E

**ACREAGE<sup>1</sup>:** 0.22

**DATE:** 1-27-98

**BASIN:** Urban Drainage

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**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)      PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder

Subcanopy: willow spp.

Understory:

Ground layer: creeping buttercup, soft rush, grasses

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Small stream drains wetland

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Associated with stormwater detention swale for development; Some trees have been planted as a buffer.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Urban 14

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 8, 25N, 5E  
**ACREAGE<sup>1</sup>:** 0.10

**DATE:** 3/24/98  
**BASIN:** Urban Drainage

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**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)      PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy:  
Understory: Himalayan blackberry  
Ground layer: creeping buttercup, cattail, soft rush, grasses, small-fruited bulrush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Associated with a small stream; Water flows from adjacent north and south fields into drain.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallards

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Small depression in grassy field; House and driveway up to the edge of wetland.

**OTHER OBSERVATIONS:**

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 1

**JURISDICTION:** Kirkland

**LOCATION (S, T, R):** 31, 26N, 5E; 32, 26N, 5E

**DATE:** 1/20/98

**ACREAGE<sup>1</sup>:** 82.65

**BASIN:** Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                      PSS (scrub/shrub)                      PEM (emergent)  
PAB (aquatic bed-algae, moss, floating or submerged plants)  
POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood, willow  
Subcanopy: willow  
Understory: salmonberry, hardhack  
Ground layer: skunk cabbage, buttercup, cattail, small-fruited bulrush,  
lady fern, soft rush, reed canary grass, horsetail, purple loosestrife

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Forbes Creek passes through wetland and enters into Lake Washington (Juanita Bay).

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

High quality wetland, stream and upland complex associated with Lake Washington.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME: Forbes 2**

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 31, 26N, 5E  
**ACREAGE<sup>1</sup>:** 1.28

**DATE:** 3/17/98  
**BASIN:** Forbes Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                  PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood,  
Subcanopy:  
Understory: Himalayan blackberry, hardhack  
Ground layer: reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Connected to Forbes 1 via a culvert under 98th Avenue NE.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>		<b>Moderate quality</b>		<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x	_____		_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x	_____		_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___		_____		_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___		_____		_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____		_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___		_____		_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Separated from Forbes 1 by 98th Avenue NE.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 3

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 32, 26N, 5E  
**ACREAGE<sup>1</sup>:** 0.74

**DATE:** 3/19/98  
**BASIN:** Forbes Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood,  
Subcanopy: willow  
Understory: salmonberry  
Ground layer: skunk cabbage, buttercup, watercress

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Two open channel streams pass through wetland.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>		<b>Moderate quality</b>		<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x	_____		_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x	_____		_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	x	_____		_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___		_____		_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____		___x___		_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____		___x___		_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**  
squirrel

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

Wetland is a riparian depression associated with the streams.

**OTHER OBSERVATIONS:**

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 4

JURISDICTION: Kirkland

LOCATION (S, T, R): 32, 26N, 5E

ACREAGE<sup>1</sup>: 0.16

DATE: 3/26/98

BASIN: Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy:

Subcanopy: willow

Understory: hardhack, rhododendron

Ground layer: yellow iris

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Pond.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallard, exotic bird spp.

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

Small ponded area surrounded by lawn.

**OTHER OBSERVATIONS:**

Banks are mostly rock walls.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 5

JURISDICTION: Kirkland  
LOCATION (S, T, R): 32, 26N, 5E  
ACREAGE<sup>1</sup>: 1.32

DATE: 3/19/98  
BASIN: Forbes Creek

VEGETATION CLASS(es) (COWARDIN):

PSS (scrub/shrub)                      PEM (emergent)  
POW (open water-unknown bottom)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy:  
Subcanopy: willow  
Understory:  
Ground layer: soft rush, grasses

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

Two ponded areas with fountain; The ponds are connected by a channel.

GENERAL FUNCTIONS:	Low quality	Moderate quality	High quality
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

mallard, Canada goose, widgeon

OBSERVATION ABOUT SIZE AND/OR SHAPE:

OTHER OBSERVATIONS:

Willows along border of pond are trimmed and maintained; Fountain in pond.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 6

JURISDICTION: Kirkland  
LOCATION (S, T, R): 32, 26N, 5E  
ACREAGE<sup>1</sup>: 0.52

DATE: 3/19/98  
BASIN: Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PEM (emergent)  
POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy:  
Subcanopy: willow  
Understory:  
Ground layer: hardstem bulrush, cattail, yellow iris, soft rush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Pond with culvert draining out of the northwest corner of the pond.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	x	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	x	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	x	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	x	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallard, Canada goose

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Banks are mostly rock walls; Completely surrounded by residences.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 7

JURISDICTION: Kirkland  
LOCATION (S, T, R): 33, 26N, 5E  
ACREAGE<sup>1</sup>: 1.78

DATE: 1/15/98  
BASIN: Forbes Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                      PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy:  
Understory: Himalayan blackberry, salmonberry  
Ground layer:

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Tributary to Forbes Creek passes through wetland.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	_____	___x___	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	___x___	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	___x___	_____	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	___x___	_____	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Wetland is associated with a stream; Wetland and stream are located in the middle of a large apartment complex.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 8

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 33, 26N, 5E  
**ACREAGE<sup>1</sup>:** 0.27

**DATE:** 1/15/98  
**BASIN:** Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)            PEM(emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy:  
Understory:  
Ground layer: cattail, reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**  
Culvert which passes under Slater Avenue drains into wetland.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**  
Small emergent and forested wetland adjacent to Interstate-405.

**OTHER OBSERVATIONS:**

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 9

**JURISDICTION:** Kirkland

**LOCATION (S, T, R):** 33, 26N, 5E

**ACREAGE<sup>1</sup>:** 10.51

**DATE:** 1/15/98

**BASIN:** Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)            PSS (scrub/shrub)            PEM (emergent)  
PAB (aquatic bed-algae, moss, floating or submerged plants)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy: willow  
Understory: salmonberry, Himalayan blackberry, hardhack  
Ground layer: lady fern

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Several stream channels come together within this wetland.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

kingfisher, merganser

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Numerous snags.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 10

JURISDICTION: Kirkland  
LOCATION (S, T, R): 33, 26N, 5E  
ACREAGE<sup>1</sup>: 1.46

DATE: 11/13/97; 1/15/98  
BASIN: Forbes Creek

VEGETATION CLASS(es) (COWARDIN):

PFO(forested)      PSS(scrub/shrub)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy: red alder, black cottonwood  
Subcanopy: willow  
Understory: salmonberry, Himalayan blackberry  
Ground layer: piggy-back plant

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):  
Riparian wetland associated with Forbes Creek.

GENERAL FUNCTIONS:	Low <u>quality</u>	Moderate <u>quality</u>	High <u>quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x _____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	___x___	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

OTHER OBSERVATIONS:

Lots of garbage.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 11

JURISDICTION: Kirkland  
LOCATION (S, T, R): 33, 26N, 5E  
ACREAGE<sup>1</sup>: 0.60

DATE: 1/15/98  
BASIN: Forbes Creek

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VEGETATION CLASS(es) (COWARDIN):

PFO(forested)                      PSS(scrub/shrub)                      PEM(emergent)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy: red alder, black cottonwood, western red cedar, holly  
Subcanopy:  
Understory: salmonberry, Himalayan blackberry, red-osier dogwood  
Ground layer:

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

Stream flows through wetland area; Inlet is through a culvert which collects drainage from surrounding upland area; Outflow enters Forbes 9.

GENERAL FUNCTIONS:	Low quality	Moderate quality	High quality
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	___x___	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	___x___	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

common crow, flicker

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

OTHER OBSERVATIONS:

Forested upland area north of the wetland.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 12

JURISDICTION: Kirkland

LOCATION (S, T, R): 33, 26N, 5E

ACREAGE<sup>1</sup>: 0.17

DATE: 1-9-98

BASIN: Forbes Creek

VEGETATION CLASS(es) (COWARDIN):

PEM (emergent)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy:

Subcanopy:

Understory:

Ground layer: reed canary grass, soft rush, small-fruited bulrush, horsetail

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

Inlet flows through culvert that crosses NE 100th St.; Outlet flows northwest to Forbes 9.

GENERAL FUNCTIONS:	Low quality	Moderate quality	High quality
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

Small wetland.

OTHER OBSERVATIONS:

New townhomes to the west; Fence around entire wetland; Area has some recently planted vegetation.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 13

**JURISDICTION:** Kirkland

**LOCATION (S, T, R):** 4, 25N, 5E

**ACREAGE<sup>1</sup>:** 1.67

**DATE:** 1-9-98

**BASIN:** Forbes Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)                      PEM (emergent)  
POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, western red cedar, western hemlock

Subcanopy:

Understory: salmonberry

Ground layer: lady fern, creeping buttercup, slough sedge

**HYDROLOGY ( INLET, OUTLET, INUNDATION, SATURATION):**

A stream passes through wetland area; standing water in some areas.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	___x___	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	___x___	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallard

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Medium sized wetland; Primarily a riparian wetland.

**OTHER OBSERVATIONS:**

Appears to be an enhancement project along stream; In North Rose Hill Park; Associated with upland forest near Forbes 14.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 14

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 4, 25N, 5E  
**ACREAGE<sup>1</sup>:** 13.00

**DATE:** 11-13-97, 1-9-98  
**BASIN:** Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                      PSS (scrub/shrub)                      PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: western red cedar, red alder  
Subcanopy: willow  
Understory: hardhack, red-osier dogwood  
Ground layer: cattail, creeping buttercup, reed canary grass, horsetail

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Stream flows through wetland.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Large wetland

**OTHER OBSERVATIONS:**

Associated via stream connections to Forbes 17 and 19.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 15

JURISDICTION: Kirkland  
LOCATION (S, T, R): 4, 25N, 5E  
ACREAGE<sup>1</sup>: 0.36

DATE: 1/15/98  
BASIN: Forbes Creek

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VEGETATION CLASS(es) (COWARDIN):

PFO(forested)            PSS(scrub/shrub)            PEM(emergent)  
POW(open water-unknown bottom)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy: red alder  
Subcanopy:  
Understory: salmonberry  
Ground layer: reed canary grass, cattail

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

Inlet is an open channel stream which branches into two channels; Both channels enter a ponded area;  
Outlet is a tributary to Forbes Creek

GENERAL FUNCTIONS:	Low <u>quality</u>	Moderate <u>quality</u>	High <u>quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

mallard

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

OTHER OBSERVATIONS:

The pond is rock lined

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 16

JURISDICTION: Kirkland  
LOCATION (S, T, R): 4, 25N, 5E  
ACREAGE<sup>1</sup>: 0.14

DATE: 1/15/98  
BASIN: Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PSS(scrub/shrub)  
POW(open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy:  
Understory: salmonberry, Himalayan blackberry, rhododendron  
Ground layer: reed canary grass, various grasses

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Inlet is open stream channel to instream pond; Outlet is open channel.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 17

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 4, 25N, 5E  
**ACREAGE<sup>1</sup>:** 22.17

**DATE:** 11-13-97, 1-9-98  
**BASIN:** Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)            PSS (scrub/shrub)            PEM (emergent)  
PAB (aquatic bed-algae, moss, floating or submerged plants)  
POW(open-water unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: black cottonwood, red alder, western red cedar  
Subcanopy: willow  
Understory: hardhack, Himayalan blackberry  
Ground layer: creeping buttercup, reed canary grass, soft rush, skunk cabbage

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Outlet flows into Forbes Creek.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Large wetland associated with Forbes Lake and Forbes Creek

**OTHER OBSERVATIONS:**

High quality lake, stream and wetland complex.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 18

JURISDICTION: Kirkland  
LOCATION (S, T, R): 4, 25N, 5E  
ACREAGE<sup>1</sup>: 0.53

DATE: 11-13-97  
BASIN: Forbes Creek

VEGETATION CLASS(es) (COWARDIN):

PFO(forested)                  PSS (scrub/shrub)                  PEM (emergent)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy: black cottonwood, western red cedar, red alder  
Subcanopy: willow  
Understory: Himalayan blackberry  
Ground layer: reed canary grass, soft rush, cattail, small-fruited bulrush

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

Outlet: culvert under NE 90th Street drains to Forbes 17.

GENERAL FUNCTIONS:	Low <u>quality</u>	Moderate <u>quality</u>	High <u>quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x _____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____x_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	____x_____	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	____x_____	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	____x_____	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	____x_____	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

common crow

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

Two wetland areas pockets separated by fill; Probably historically part of Forbes 17.

OTHER OBSERVATIONS:

NW corner is best habitat/plant community and standing water; East side is less weedy and less wet

1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 19

JURISDICTION: Kirkland  
LOCATION (S, T, R): 4, 25N, 5E  
ACREAGE<sup>1</sup>: 8.60

DATE: 1-9-98  
BASIN: Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                      PSS (scrub/shrub)                      PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: black cottonwood, red alder, western red cedar  
Subcanopy: willow  
Understory: salmonberry, hardhack  
Ground layer: reed canary grass, creeping buttercup, soft rush, skunk cabbage

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION)**

Tributary to Forbes Creek passes through wetland.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Large wetland system connected via stream to Forbes 14.

**OTHER OBSERVATIONS:**

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Forbes 20

JURISDICTION: Kirkland  
LOCATION (S, T, R): 4, 25N, 5E  
ACREAGE<sup>1</sup>: 0.10

DATE: 3/19/98  
BASIN: Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: black cottonwood, red alder  
Subcanopy: willow  
Understory: Himalayan blackberry, hardhack  
Ground layer: reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION)**

Isolated wetland area.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_x_	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_x_	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_x_	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_x_	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Isolated remnant of Forbes 19; Area in-between Forbes 19 and Forbes 20 has been recently planted; Previously delineated; Little or no buffer between development and wetland.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 21

**JURISDICTION:** Kirkland

**LOCATION (S, T, R):** 4, 25N, 5E

**ACREAGE<sup>1</sup>:** 0.51

**DATE:** 4-16-98

**BASIN:** Forbes Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder

Subcanopy:

Understory: salmonberry, hardhack, Himalayan blackberry

Ground layer: creeping buttercup, soft rush, small-fruited bulrush, horsetail

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION)**

Stream passes behind recently built house; Drainage passes under driveway.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>		<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	x	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___		_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____		___x___	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

New house on lot; Stakes indicate "wetland buffer" as little as 3 feet from wetland boundary; Newly installed landscaping.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Forbes 22

**JURISDICTION:** Kirkland

**LOCATION (S, T, R):** 4, 25N, 5E

**ACREAGE<sup>1</sup>:** 0.75

**DATE:** 4-16-98

**BASIN:** Forbes Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)            PSS(scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, western red cedar, mountain ash

Subcanopy: willow

Understory: salmonberry, hardhack, Indian plum

Ground layer: skunk cabbage, lady fern, reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION)**

Stream in ditch along road.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	_____	x	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	x	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	_____	x	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	___x___	_____	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

rufous hummingbird, kinglet

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Garbage and debris recently removed from ditch through wetland; Snags with cavities and fallen trees.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 1

**JURISDICTION:** Kirkland  
**LOCATION (S,T,R):** 30, 26N, 5E  
**ACREAGE<sup>1</sup>:** 0.15

**DATE:** 12-4-97  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                  PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, willow spp.  
Subcanopy:  
Understory: Himalayan blackberry, salmonberry, lady fern  
Ground layer: small-fruited bulrush, soft rush, horsetail

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Saturated depression; Outlet in southeast corner, exits through culvert

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

A portion of the wetland has been cleared.

**OTHER OBSERVATIONS:**

Construction debris was dumped in wetland and buffer; The City has required them to remove debris and to restore the wetland.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Juanita 2

JURISDICTION: Kirkland  
LOCATION (S,T,R):  
ACREAGE<sup>1</sup>: 0.28

DATE: 3/17/98  
BASIN: Juanita Creek

**VEGETATION CLASS(es) (COWARDIN):**

POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy:  
Subcanopy: willow spp.  
Understory:  
Ground layer: small-fruited bulrush, yellow iris, cattail, soft rush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Wetland area is an instream pond; Stream is tributary to Juanita Creek.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallard (hybrids); crow.

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Wetland is surrounded by apartments; Lawn surrounding pond is mowed and manicured.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 3

**JURISDICTION:** Kirkland

**LOCATION (S,T,R):**

**ACREAGE<sup>1</sup>:** 0.43

**DATE:** 3/17/98

**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy:

Subcanopy: willow spp.

Understory:

Ground layer: hardstem bulrush, purple loosestrife, reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Wetland area is an instream pond west of Juanita High School; Stream is tributary to Juanita Creek.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	___x___	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	x	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallard, crow, Bewicks wren, merganser, English sparrow, muskrat.

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 4

**JURISDICTION:** Kirkland  
**LOCATION (S,T,R):** 29, 26N, 5E  
**ACREAGE<sup>1</sup>:** 24.91

**DATE:** 12-4-97  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(ES) (COWARDIN):**

PFO(*forested*)                      PSS (*scrub/shrub*)                      PEM (*emergent*)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, Oregon ash, willow  
Subcanopy:  
Understory: hardhack  
Ground layer: cattail

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Tributary to Juanita Creek flows through wetland; Open channel outlet.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

red-winged blackbird, dark-eyed junco, winter wren, flicker

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

Large wetland.

**OTHER OBSERVATIONS:**

A great deal of songbird activity; No buffer, surrounded by development; Several snags.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Juanita 5

JURISDICTION: Kirkland  
LOCATION (S,T,R): 29, 26N, 5E  
ACREAGE<sup>1</sup>: 0.10

DATE: 3/17/98  
BASIN: Juanita Creek

**VEGETATION CLASS(ES) (COWARDIN):**

PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy:  
Subcanopy:  
Understory:  
Ground layer: grasses, soft rush, buttercup, small-fruited bulrush, spike rush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Storage pond.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x _____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x _____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_x_____	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_x_____	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_x_____	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_x_____	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Wetland is stormwater drainage area; Wetland could be enhanced with trees and/or shrubs on sideslopes.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Juanita 6

JURISDICTION: Kirkland

LOCATION (S,T,R): 29, 26N, 5E

ACREAGE<sup>1</sup>: 15.63

DATE: 12-4-97

BASIN: Juanita Creek

VEGETATION CLASS(ES) (COWARDIN):

PFO(forested)

PSS (scrub/shrub)

PEM (emergent)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy: black cottonwood, red alder, willow

Subcanopy: willow

Understory: hardhack, red-osier dogwood

Ground layer: cattail, creeping buttercup, soft rush, small-fruited bulrush

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

Tributary to Juanita Creek flows through wetland.

GENERAL FUNCTIONS:	Low <u>quality</u>	Moderate <u>quality</u>	High <u>quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

Large wetland.

OTHER OBSERVATIONS:

Numerous snags; "Heronfield Wetland"; Little or no wetland buffer.

1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 7

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 29, 26N, 5E  
**ACREAGE<sup>1</sup>:** 1.13

**DATE:** 12-4-97  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                      PSS (scrub/shrub)                      PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, willow  
Subcanopy:  
Understory:  
Ground layer: cattail, creeping buttercup

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Hydrologically connected to Juanita 6; Poned area that seems to act as a storm water detention pond.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	_____	___x___	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	___x___	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	___x___	_____	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	___x___	_____	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

This wetland used to be a part of Juanita 6; In 1990 a business park was built and a small stream was placed in a culvert under the business park; This effectively fragmented this wetland which is now only connected via pipes and ditches.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 8

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 28, 26N, 5E  
**ACREAGE<sup>1</sup>:** 0.47

**DATE:** 1/20/98  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)                      PEM (emergent)  
POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: willow  
Subcanopy:  
Understory:  
Ground layer: reed canary grass, cattails

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Wetland serves as a detention pond.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	___x___	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Wetland is small and serves as stormwater detention pond.

**OTHER OBSERVATIONS:**

Located adjacent to I-405.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 9

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 28, 26N, 5E  
**ACREAGE<sup>1</sup>:** 0.44

**DATE:** 1/20/98  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)                      PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy: willow  
Understory:  
Ground layer: cattail, soft rush, reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Collects drainage from road and surrounding development.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x _____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x _____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____x_____	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____x_____	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____x_____	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x _____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

American goldfinch, song sparrow

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Separated from Totem Lake Wetlands by Totem Lake Boulevard.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 10

**JURISDICTION:** Kirkland  
**LOCATION (S,T,R):** 28, 26N, 5E  
**ACREAGE<sup>1</sup>:** 19.97

**DATE:** 1/20/98  
**BASIN:** Juanita Creek

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**VEGETATION(es) (COWARDIN):**

PFO(forested)                  PSS (scrub/shrub)                  PEM (emergent)  
PAB(aquatic bed-algae, moss, floating or submerged plants)  
POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, willow  
Subcanopy:  
Understory: hardhack, Himalayan blackberry, salmonberry  
Ground layer: reed canary grass, cattail, purple loosestrife, small-fruited bulrush

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Outlet enters Juanita Creek.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____	___x___
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	___x___
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	___x___
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____	___x___
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	___x___
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	___x___

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

downey woodpecker, kinglet, black-capped chickadee, great blue heron, coots

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Numerous snags; Very little buffer around wetland; development up to wetland edge along most boundaries; High quality lake, wetland and stream complex.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Juanita 11

JURISDICTION: Kirkland

LOCATION (S, T, R): 28, 26N, 5E

ACREAGE<sup>1</sup>: 0.19

DATE: 1/20/98

BASIN: Juanita Creek

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VEGETATION CLASS(es) (COWARDIN):

PFO(forested)

PSS (scrub/shrub)

PEM (emergent)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy: red alder, black cottonwood

Subcanopy: willow

Understory:

Ground layer: reed canary grass

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):

GENERAL FUNCTIONS:	Low <u>quality</u>	Moderate <u>quality</u>	High <u>quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x _____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x _____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____x_____	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____x_____	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____x_____	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x _____	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

OTHER OBSERVATIONS:

Bordered on nearly all sides by development and the Burlington Northern Railroad; Separated from Totem Lake wetland by the railroad track.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Juanita 12

JURISDICTION: Kirkland  
LOCATION (S,T,R):  
ACREAGE<sup>1</sup>: 1.51

DATE: 3/17/98  
BASIN: Juanita Creek

VEGETATION CLASS(es) (COWARDIN):

PEM (emergent)

DOMINANT PLANT SPECIES<sup>2</sup>:

Canopy:  
Subcanopy:  
Understory:  
Ground layer: grasses, soft rush, spike rush

HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):  
Wetland is small emergent depression.

GENERAL FUNCTIONS:	Low <u>quality</u>	Moderate <u>quality</u>	High <u>quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:  
mallard.

OBSERVATIONS ABOUT SIZE AND/OR SHAPE:

OTHER OBSERVATIONS:

Wetland is stormwater storage pond near Lake Washington Technical College; Wetland could be enhanced with trees or shrubs on sideslopes.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 13

**JURISDICTION:** Kirkland  
**LOCATION (S, T, R):** 28, 26N, 5E  
**ACREAGE<sup>1</sup>:** 0.66

**DATE:** 1/20/98  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PSS (scrub/shrub)                      PEM (emergent)  
POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: western red cedar  
Subcanopy: willow  
Understory:  
Ground layer: soft rush, reed canary grass, Himalayan blackberry

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Inlet and outlet are tributary to Juanita Creek, open channel.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	___x___	_____	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	x	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	_____	x	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	___x___	_____	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallard, ruddy duck, hybrid ducks

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Wetland is narrow fringe around pond; Area is mostly maintained lawn grasses; Surrounded by medical offices.

**OTHER OBSERVATIONS:**

Wetland primarily serves as manicured stormwater detention pond/park.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Juanita 14

JURISDICTION: King County  
LOCATION (S, T, R): 21, 26N, 5E  
ACREAGE<sup>1</sup>: 0.5

DATE: 1/20/98  
BASIN: Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)          PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, hawthorn, oak sp.  
Subcanopy: vine maple  
Understory: Himalayan blackberry, English ivy  
Ground layer: reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Outlet enters Juanita Creek.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

song sparrow

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Small wetland in residential area.

**OTHER OBSERVATIONS:**

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 15

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 21, 26N, 5E  
**ACREAGE<sup>1</sup>:** 0.7

**DATE:** 4/1/98  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)                  PSS (scrub/shrub)                  PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: black cottonwood, red alder  
Subcanopy: willow  
Understory: Himalayan blackberry  
Ground layer: reed canary grass, buttercup, bittersweet nightshade

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Stream passes through wetland.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	x	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	x	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	x	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

song sparrow, mallard

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Completely surrounded by homes.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 16

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 20, 26N, 5E  
**ACREAGE:**<sup>1</sup> 4.6

**DATE:** 2/26/98  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)            PSS (scrub/shrub)            PEM (emergent)  
POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder  
Subcanopy: willow  
Understory: Himalayan blackberry  
Ground layer: reed canary grass, hardhack, cattail

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Tributary to Juanita Creek passes through wetland; Small instream pond.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	___x___	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	___x___	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	___x___	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**  
This riparian wetland is approximately 50-70' wide.

**OTHER OBSERVATIONS:**

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 17

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 20, 26N, 5E  
**ACREAGE<sup>1</sup>:** 1.0

**DATE:** 4/1/98  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PEM (emergent)      POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy:  
Subcanopy: willow  
Understory:  
Ground layer: soft rush, purple loosestrife

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Pond with no inlet or outlet.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	___x___	_____	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	___x___	_____	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	___x___	_____	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	___x___	_____	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallard, hybrid ducks

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Surrounded by maintained lawn; Fountain in the pond.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 18

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 20, 26N, 5E  
**ACREAGE<sup>1</sup>:** 11.3

**DATE:** 2/26/98  
**BASIN:** Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood  
Subcanopy:  
Understory: Himalayan blackberry, salmonberry  
Ground layer:

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Juanita Creek flows through wetland.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	_____	_____	x _____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	___x___	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	_____	___x___	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	_____	___x___	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	x _____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	x _____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

flicker, mallard, squirrel

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Appears to be smaller and narrower than shown in the King County Map Folio Inventory.

**OTHER OBSERVATIONS:**

Riparian wetland associated with Juanita Creek in Edith Moulton Park; Adjacent to residential areas.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

WETLAND NAME: Juanita 19

JURISDICTION: King County  
LOCATION (S, T, R): 20, 26N, 5E  
ACREAGE<sup>1</sup>: 0.6

DATE: 3/31/98  
BASIN: Juanita Creek

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**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, western red cedar  
Subcanopy:  
Understory: Himalayan blackberry, salmonberry  
Ground layer: skunk cabbage, bittersweet nightshade, large-leaved avens

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Tributary to Juanita Creek flows through wetland; Numerous groundwater seeps.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
Water quality maintenance Consider flow, hydrology, veg cover, location	___x___	_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	___x___	_____	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	___x___	_____	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	___x___	_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	___x___	_____	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

mallard

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Riparian wetland associated with tributary to Juanita Creek in residential area; Noisy with I-405 so close; Wetland signage has been installed.

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1 The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

2 Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 20

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 19, 26N, 5E  
**ACREAGE<sup>1</sup>:** 3.8

**DATE:** 3/17/98  
**BASIN:** Juanita Creek

**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood, willow  
Subcanopy:  
Understory: Himalayan blackberry, salmonberry  
Ground layer: reed canary grass

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Juanita Creek passes through wetland.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	___x___	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	___x___	_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	x	_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	x	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	___x___	_____	_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

song sparrow, Steller's jay

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Wetland is narrow fringe along Juanita Creek.

**OTHER OBSERVATIONS:**

Most of trees are flagged and marked with metal flags; Part of larger riparian corridor; Stormwater pond just west of 100th Avenue NE.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Juanita 21

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 18, 26N, 5E  
**ACREAGE<sup>1</sup>:** 1.6

**DATE:** 3/17/98  
**BASIN:** Juanita Creek

---

**VEGETATION CLASS(es) (COWARDIN):**

PFO (forested)                  PSS (scrub/shrub)                  PEM (emergent)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, willow  
Subcanopy:  
Understory: red-osier dogwood  
Ground layer: reed canary grass, cattail, skunk cabbage, purple loosestrife

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Stream channel along east side.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>		<u>Moderate quality</u>		<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	x	_____		_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____		_____x		_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____		_____x		_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____x		_____		_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____		_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____		_____x		_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

robin, song sparrow, mallard, skunk

**OBSERVATIONS ABOUT SIZE AND/OR SHAPE:**

Appears somewhat smaller than shown on King County Wetland Folio Maps.

**OTHER OBSERVATIONS:**

Several snags in wetland Cattail area is detention pond; Sideslopes recently planted with trees and shrubs; Some purple loosestrife in detention pond and adjacent wetland.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Lake Washington 1

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 24, 26N, 4E  
**ACREAGE<sup>1</sup>:** 1.5

**DATE:** 3/17/98  
**BASIN:** Lake Washington

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, western red cedar  
Subcanopy:  
Understory: salmonberry, hardhack  
Ground layer:

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Ponded water, 6"-8" deep; Isolated wetland.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>	<b>Moderate quality</b>	<b>High quality</b>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	___x___	_____	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	x	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	___x___	_____	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	___x___	_____	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	___x___	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Wetland adds diversity to surrounding forested area in Big Finn Hill Park; Wetland is adjacent to road.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Lake Washington 2

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 24, 26N, 4E  
**ACREAGE<sup>1</sup>:** 12.9

**DATE:** 3/17/98  
**BASIN:** Lake Washington

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)                      PSS (scrub/shrub)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood  
Subcanopy: willow  
Understory: Himalayan blackberry, hardhack, salmonberry  
Ground layer: water parsley

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Standing water; Outlet is a stream in the northwest corner.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
Water quality maintenance Consider flow, hydrology, veg cover, location	_____	_____x_____	_____
Flood/stormwater storage Consider size, location, forest cover, outlet	_____	_____	x_____
Baseflow/groundwater support Consider size, location, hydrology, fish pops	_____	_____	x_____
Erosion/shoreline protection Consider veg type/density @OHW, extent, development	_____	_____x_____	_____
Cultural/recreational Consider educ opps, aesthetics, comm value, recreation, ownership	_____	_____	_____x_____
Wildlife habitat Consider size, location, food/cover/water, diversity, hab features, invasives	_____	_____	x_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

crow

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Some vegetation along 84th Street has been recently cut; Wetland is adjacent to Finn Hill Junior High in the eastern part of Big Finn Hill Park.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Lake Washington 3

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 19, 26 N, 5E  
**ACREAGE<sup>1</sup>:** 1.3

**DATE:** 3/17/98  
**BASIN:** Lake Washington

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**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)            PSS (scrub/shrub)  
POW (open water-unknown bottom)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, black cottonwood  
Subcanopy: willow  
Understory: salmonberry, hardhack, Himalayan blackberry  
Ground layer: buttercup

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Ponded area with open channel outlet to southwest.

<b>GENERAL FUNCTIONS:</b>	<u>Low quality</u>	<u>Moderate quality</u>	<u>High quality</u>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	_____	__x__	_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	__x__	_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	_____	__x__	_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	_____	__x__	_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	__x__	_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____	__x__	_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

crow, song sparrow

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Garbage and other debris found in wetland.

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<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**WETLAND NAME:** Lake Washington 4

**JURISDICTION:** King County  
**LOCATION (S, T, R):** 13, 26N, 4E  
**ACREAGE<sup>1</sup>:** 8.3

**DATE:** 3/17/98  
**BASIN:** Lake Washington

**VEGETATION CLASS(es) (COWARDIN):**

PFO(forested)

**DOMINANT PLANT SPECIES<sup>2</sup>:**

Canopy: red alder, willow, birch, western red cedar, hemlock  
Subcanopy:  
Understory: salmonberry, hardhack  
Ground layer:

**HYDROLOGY (INLET, OUTLET, INUNDATION, SATURATION):**

Several channel areas pass through wetland, some appear to be manmade.

<b>GENERAL FUNCTIONS:</b>	<b>Low quality</b>		<b>Moderate quality</b>		<b>High quality</b>
<b>Water quality maintenance</b> Consider flow, hydrology, veg cover, location	_____	x	_____		_____
<b>Flood/stormwater storage</b> Consider size, location, forest cover, outlet	_____	x	_____		_____
<b>Baseflow/groundwater support</b> Consider size, location, hydrology, fish pops	___x___		_____		_____
<b>Erosion/shoreline protection</b> Consider veg type/density @OHW, extent, development	___x___		_____		_____
<b>Cultural/recreational</b> Consider educ opps, aesthetics, comm value, recreation, ownership	_____	x	_____		_____
<b>Wildlife habitat</b> Consider size, location, food/cover/water, diversity, hab features, invasives	_____		___x___		_____

**WILDLIFE SPECIES OBSERVED/DETECTED<sup>2</sup>:**

squirrel, robin, kinglet, chickadee, crow, woodpecker

**OBSERVATION ABOUT SIZE AND/OR SHAPE:**

**OTHER OBSERVATIONS:**

Wetland has been recently delineated; Wetland is a mosaic of upland and wetland areas; Area has been disturbed with tire tracks.

<sup>1</sup> The area is approximate and wetland delineation and surveying would provide a more accurate size for each wetland.

<sup>2</sup> Species listed are only those observed during the field visit. Further studies would be needed to obtain a complete list.

**APPENDIX C. AUDUBON WILDLIFE SURVEY**

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JUANITA BAY AND ASSOCIATED WETLANDS WILDLIFE SURVEY				
SPECIES	WINTER	SPRING	SUMMER	FALL
Canada Goose	X			X
Mallard	X	X	X	X
Gadwall	X	X	X	X
American Widgeon	X			X
Shovier	X			X
Blue Winged Teal	X			X
Green Winged Teal	X			X
Cinnamon Teal	X			X
Ring Necked Duck	X			X
Ruddy Duck	X			X
Pintail	X			X
Canvas Back Duck	X			X
Pied Billed Grebe	X	X	X	X
Horned Grebe	X			X
Western Grebe	X	X		X
Bufflehead	X			X
Common Goldeneye	X			X
Lesser Scaup	X			X
Hooded Merganser	X			X
Double Crested Cormorant	X			X
American Coot	X	X	X	X
Great Blue Heron	X	X	X	X
Green Heron		X	X	X
Common Snipe		X		X
Sora Rail		X	X	X
Virginia Rail		X	X	X
American Bittern		X	X	X
Killdeer		X	X	X
Semi Palmated Plover	X			
Spotted Sandpiper		X	X	
Marsh Wren		X	X	X
Bewicks Wren		X	X	X
Band Tailed Pigeon				X
Rock Doves	X	X	X	X
Starlings	X	X	X	X
Ring Necked Pheasant			X	X
American Crow	X	X	X	X
Belted Kingfisher		X	X	X
Mew Gull	X	X		X
Herring Gull	X	X	X	X
Glaucous Winged Gull	X	X	X	X
Cliff Swallows		X	X	X
Barn Swallows		X	X	X
Tree Swallows		X	X	X
Violet Green Swallows		X	X	X
Red Winged Blackbird		X	X	
Robin	X	X	X	X
Western Flycatcher		X	X	

