Forbes Lake Trail and Park Improvements Plan
City of Kirkland

Prepared by Worthy and Associates, LLC
March 2009
Acknowledgements

City Council
   Mayor Jim Lauinger
   Deputy Mayor Joan McBride
   Dave Asher
   Mary-Alyce Burleigh
   Jessica Greenway
   Tom Hodgson
   Bob Sternoff
   City Manager David Ramsay

Parks and Community Services Department
   Jennifer Schroder, CPRP, Director
   Michael Cogle, Park Planning and Development Manager
   Teresa Sollitto, Park Project Coordinator
   Jason Filan, Park Maintenance and Operations Manager

Planning and Community Development Department
   Jon Regala, Associate Planner

Public Works Department
   John Burkhalter, Senior Development Engineer
   Stacey Rush, Storm Water Utility Engineer

Park Board
   Colleen Cullen, Chair
   Robert Kamuda, Vice Chair
   Chuck Bartlett
   Jennifer Davies
   Kevin Hanefeld
   Susan Keller
   Zoe Vartanian, Youth Rep.
   Adam White

Consultants
   Worthy and Associates, LLC
   Steve Worthy, ASLA, Principal
   Carolyn Alcorn, ASLA
   Laura Davis, ASLA

   ESA Adolfson
   Benn Burke, Fish and Wildlife Program Manager
   Ilon Logan, Project Scientist
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The following are key statements from the 2003 North Rose Hill Neighborhood Plan related to Forbes Lake Park:

- “Forbes Lake is an important public landmark and open space feature in the neighborhood. In future development, the City should seek to enhance the public views of the lake and wetland areas. To preserve the natural wetland system, active recreational use of this area should be discouraged.”
- “New development adjacent to Forbes Lake should provide for public access to the lake in appropriate locations. Public access should be limited to passive uses, such as walking trails or viewpoints.”
- “Nonmotorized connections should be improved and added... around a limited portion of Forbes Lake connecting City-owned property and existing public access across private property.”

Vision
The Forbes Lake Trail and Park Improvements project aims to protect and enhance shoreline and wetland habitat areas while providing public access to trail corridors and interpretive viewing platforms. Low-impact paved and boardwalk trails will be ADA accessible and provide important connections within the city’s non-motorized transportation plan.
Forbes Lake Natural Amenities

Forbes Lake and its associated wetlands are located within the upper reaches of the Forbes Creek Watershed. The 1,800 acre Forbes Creek Watershed drains from the North Rose Hill Neighborhood, west through Forbes Lake, under I-405, and down to Lake Washington. The 16 acre site of the Forbes Lake Trail and Park Improvements Project is composed of open-water, aquatic-bed, emergent, scrub-shrub, and forested-wetland zones, with limited upland areas. This diverse wetland complex creates valuable wildlife habitat while providing important stormwater conveyance and water quality management functions for the City of Kirkland.

Two small headwater tributaries discharge into Forbes Lake within the project area, the main stem of Forbes Creek at the south end of the lake and an intermittent stream that crosses Forbes Lake Park-West through a deeply incised channel. The lake discharges through the continuation of Forbes Creek on the north side of the lake.

Wildlife observed at Forbes Lake has included coyotes, deer, raccoons, turtles, frogs, and a rich variety of bird species, including bald eagles, hawks, blue heron, osprey, marsh wren, ducks, quail, and swallows. Beavers have a long history of damming sections of Forbes Creek causing localized flooding. The main stem of Forbes Creek north of the lake has historically supported cutthroat trout (The Watershed Company, 1998), while the downstream reaches have records of both cutthroat trout and coho salmon. A recent fish habitat enhancement project conducted on Forbes Creek west of I-405 may result in increased salmonid presence upstream of I-405 towards Forbes Lake.
WSDOT Mitigation Projects

In 2006 and 2007, the Washington State Department of Transportation (WSDOT) constructed mitigation areas at Forbes Lake Park-East and Forbes Lake Park-West as compensation for wetland impacts associated with the I-405 Kirkland Nickel Project. Both mitigation areas were created with knowledge and anticipation of planned park improvements for the sites, including trails, boardwalks, and a small parking lot at Forbes Lake Park-East. WSDOT is required to monitor and maintain the mitigation areas for a period of ten years from the project completion dates. As the Forbes Lake Trail and Park Improvements Project moves forward, the City of Kirkland will work with WSDOT and the permitting agencies on any proposed modifications within the mitigation areas.

Property Ownership

The following map illustrates existing ownership of land parcels surrounding Forbes Lake. At present, the City of Kirkland owns 8.8 acres of property surrounding Forbes Lake. The City purchased parcels at Forbes Lake Park-East in 1990 and acquired additional parcels as shown to the north and south as part of private development conditions. In December of 2008, the City purchased the lake-side parcel of the Razumovich property, south of Forbes Lake Park-East, to accommodate proposed trail access as described later in this report. WSDOT has also agreed to transfer 2.65 acres of property to the City of Kirkland at Forbes Lake Park-West following the required monitoring period.
Existing Ownership Map (includes Razumovich parcel acquired by the City of Kirkland)
Existing Access

Kirkland’s Shoreline Master Program “requires public pedestrian access along the water’s edge of all shoreline development, other than single-family residential,” (Kirkland Municipal Code, Section 24.05.065). Previous multifamily development projects at Forbes Lake have led to the creation of public access points on the northeast side through Lake Kirkland Park Condos and on the southeast side through Lochshire Condominiums. A public viewing platform with interpretive signage also exists within the right-of-way at Forbes Lake Park-West.

A stabilized access route and former construction staging area remain at Forbes Lake Park-East as a result of the WSDOT mitigation project. Roadside improvements including curb, gutter, and sidewalk have not been completed along 124th Ave. NE adjacent to the project site.
Existing Access Map
Forbes Lake Park-East: Existing Conditions
Forbes Lake Park-West: Existing Conditions
The adjacent map illustrates existing walking and bicycle routes near Forbes Lake Park. A main goal of the Forbes Lake Trail and Park Improvement Project is to enhance neighborhood connectivity by making important linkages between 124th Ave. NE and Slater Ave. as identified within the City’s Non-Motorized Transportation Plan.
Public Process

Summaries of key events in the public review process are listed as follows:

February 13, 2008:  **Park Board Meeting #1** covered the project’s background, ownership, scope of work, proposed public process, and timeline.

May 22, 2008:  All public meetings were held at the North Rose Hill Fire Station. At **Public Meeting #1**, attendees brainstormed existing site conditions, concerns, and design ideas for the park. Discussions revolved around recreation types, potential access routes, parking, public safety, adjacent homeowner security and privacy, maintenance of walkways and stormwater facilities.

June 25, 2008:  City Council and Park Board field trip to the site.

October 22, 2008:  Feedback from the previous meetings was used to develop two preliminary design alternatives which were presented at **Public Meeting #2**. Alternative A (see page 16) showed a complete boardwalk section connecting the existing north boardwalk through Forbes Lake Park-East, the Lochshire property, and ending at Forbes Lake Park-West. Alternative B (see page 17) did not include a connection to the north boardwalk and had a more circuitous route from Forbes Lake Park-East, connecting to the existing easement through Lochshire, and winding down the 92nd Street right-of-way to Forbes Lake Park-West. There was an overriding preference for the Alternative A trail alignment with the exception of the connection to the north boardwalk. Due to security concerns, residents of Lake Kirkland Park Condominiums strongly opposed linking the existing north boardwalk, which runs through their property, to the larger trail network.
Public Process Continued...

November 12, 2008: The preliminary design alternatives and the Draft Preferred Plan with proposed phasing and cost information were presented for comment at Park Board Meeting #2. The Draft Preferred Plan included the trail alignment from Alternative A without the connection to the existing north boardwalk. The boardwalk connection between NE 92nd Street and the main boardwalk corridor was designated as phase 2 construction and an added boardwalk segment connecting NE 92nd Street more directly to Slater Avenue was designated as phase 3 construction. Park Board members and citizen attendees fully supported the proposed plan.

December 3, 2008: Public Meeting #3 was an open-house review of the Draft Preferred Plan. Lochshire Condominiums past and current Board Presidents attended and approved proposed changes within the Lochshire property (pending full approval of their Board and membership). Lake Kirkland Park Condos residents all restated approval of the Draft Preferred Plan showing no bridge inlet crossing. Another view was expressed in favor of the original Alternative A showing a footbridge at Forbes Lake Park-East to complete the link and provide more connections.
January 14, 2009: The Park Board held a **Public Hearing** on the Draft Preferred Plan at their regularly scheduled meeting. Citizens who testified expressed strong support for the Draft Preferred Plan as presented. One citizen expressed a preference for extending the trail system north to the existing boardwalk at Lake Kirkland Park Condos, while another citizen urged that an off-leash dog area be considered. Following the hearing, the Park Board voted unanimously (8-0) to recommend the preferred plan to the City Council.

March 3, 2009: The City Council also voted unanimously (7-0) to approve the Forbes Lake Trail and Park Improvements Plan.
Preferred Plan

[Map showing proposed plans for Preferred Plan, including new pathways, pedestrian access, and other features.]

- New PATH
- New BOARDWALK, Phase 1
- New BOARDWALK, Phase 2
- New BOARDWALK, Phase 3
- New VIEWING PLATFORM
- FOOT BRIDGE
- Interpretive Signage
- Bench
- Picnic Table
- Trail Map

Existing features include:
- Existing BOARDWALK
- Existing PATH
- Existing VIEWING PLATFORM
- Existing WATERWAY
- Existing WETLAND
- WSDOT CREATED WETLAND

Key points:
- Remove berm and replant
- New sidewalk per City standards
- FOOT BRIDGE
- Small parking lot, approx. 8 stalls
- Forbes Creek pedestrian crossing
- Forbes Lake Park - East
- Forbes Lake Park - West
- Rose Hill Presbyterian Church
- Forbes Lake Park - West
- Forbes Creek

Legend includes:
- Nearest trails and boardwalks
- Play area
- Existing trails and boardwalks
- Forbes neighborhood

Scale: 0 100 200 (approx. scale)
**Preferred Plan**

**Trails and Boardwalks**
The Draft Preferred Plan shown on the preceding page includes a main trail corridor that connects Forbes Lake Park-East to Forbes Lake Park-West. Future phase boardwalk connections are also proposed from the main boardwalk corridor to NE 92nd Street and from NE 92nd Street directly to Forbes Lake Park-West and Slater Avenue. No changes are planned for the existing north boardwalk section. The existing public trail easement through Lochshire Condominiums property would be converted to private access in exchange for public access across the northwest shoreline portion of the property. It is anticipated that all of the trails will be fully ADA accessible.

The ADA accessible trail system will utilize 6 foot wide elevated boardwalks within wetland areas and permeable paving within upland areas. The boardwalks will be constructed with Army Corps approved “diamond pier” block systems designed for low impact on wetlands. Three, approximately 10 feet long, foot bridges are proposed across Forbes Creek and the small inlet within the Lochshire property.

**Viewing Platforms**
Viewing platforms are proposed at both Forbes Lake Park-East and Forbes Lake Park-West. The platforms will be approximately 8 feet x 15 feet in size and include guardrails with angled tops. Interpretive signs will be installed to enhance educational opportunities.

**Parking and Roadside Improvements**
A small, pervious asphalt parking lot located within the existing gravel area at Forbes Lake Park-East will provide an ADA accessible stall and approximately 7 standard stalls. On-street parking will be available along Slater Avenue and on NE 92nd Street. New curb, gutter, and sidewalk improvements are proposed along 124th Avenue NE per
Preferred Plan Continued...

City of Kirkland roadway build-out standards. In order to minimize filling and grading impacts, a 6 foot wide and approximately 35 foot long bridge will provide safe pedestrian crossing of the existing deep drainage channel.

Site Furniture
Picnic tables are proposed in highly visible locations near the parking lot at Forbes Lake Park-East and within the existing viewing platform at Forbes Lake Park-West. The park entrances will include park signage, trail maps, trash receptacles, and dog stations. Wetland protection signage, regulatory signage, and private property boundary markers will be placed as-needed along the trail corridor.

Sustainable Design
Sustainable design components planned for the project include the use of recycled wood and plastic boardwalk decking, pervious pavement within the parking lot and upland trails, water quality enhancements along 124th Ave. NE, onsite branch chipping and wood waste recovery, and minimizing offsite soil disposal.

Habitat Protection and Enhancement
The final trail alignment will be carefully sited to minimize impacts to habitat areas. Where opportunities exist, the boardwalk will be located in degraded zones such as areas of invasive Himalayan blackberry and reed canary grass. A mitigation plan will be created for vegetation impacts within the boardwalk alignment.

Next Steps
Permitting and construction documentation for the preferred plan will be completed in 2009, with construction occurring in the spring through fall of 2010.
Sidewalk, Trails, and Boardwalks
Wildlife Viewing Areas and Interpretive Signage

Can you find these plants?

A rose is a rose?

Can you find these plants?

Did you know?

Rattlesnake Blister Beetle eats 200,000 pounds of grasshoppers, beetles, and flies. For more information, visit the Washington Insecticide Pest Society at www.wipps.org.
Site Furniture
Phase Implementation and Cost Opinion

A phasing strategy will be necessary to implement the highest priority phase 1 portions of the Forbes Lake Trail and Park Improvements Project and defer lower priority portions for future funding opportunities. Phase 1 priorities include the trailhead parking area, improvements along 124th Ave. NE, and the main boardwalk corridor connecting Forbes Lake Park-East and Forbes Lake Park-West. Phase 2 extends the boardwalk trail system to NE 92nd Street, allowing portions of the Lochshire Condominium easement to be revised from public to private access in exchange for the granted Phase 1 easement alignment. Phase 3 has the lowest priority but is a desirable direct connection from NE 92nd Street to Forbes Lake Park-East and Slater Avenue.

The following cost opinion does not include site furnishings that are to be provided and installed by the City, including entrance, interpretive, and regulatory signage, trash receptacles, picnic tables, and benches.
Phase Implementation and Cost Opinion Continued ...

City of Kirkland Parks and Community Services  
Forbes Lake Trail and Park Improvements  

**DRAFT January 2009**

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25
References

Kirkland’s Streams, Wetlands, and Wildlife Study. 1998. The Watershed Company
Washington Department of Fish and Wildlife (WDFW). 2007. Priority Habitats and
   Species data for the vicinity of Forbes Lake.
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