

A photograph of a winding creek in a grassy field, with a dense forest in the background under a cloudy sky. The creek is surrounded by tall green grass and some low-lying vegetation. The water is a light brown color. The forest in the background is composed of many tall, thin trees.

CAMPBELL CREEK ESTUARY NATURAL AREA

DRAFT MASTER PLAN

AUGUST 2012

Cover Image: Campbell Creek Estuary (Carl Johnson).



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BACKGROUND

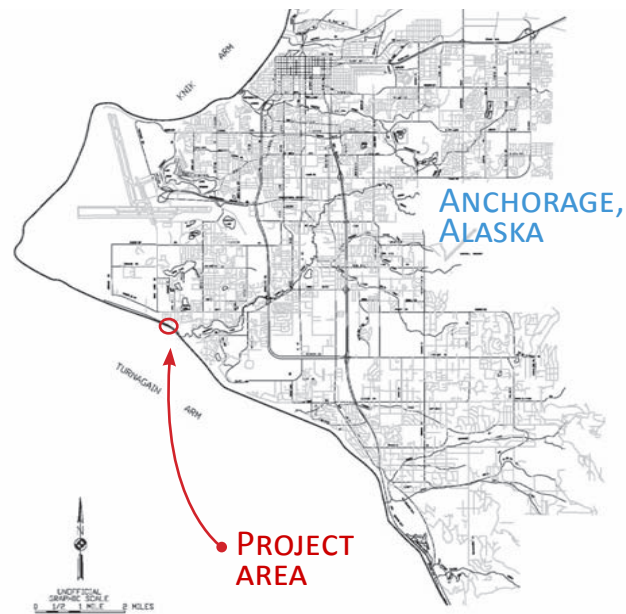
The Campbell Creek Estuary Natural Area is a large intact natural property within an Anchorage residential neighborhood. Its rich abundance of coastal wetlands, views, and upland habitats is a refuge for indigenous flora and fauna and migrating waterfowl. In 2001 a discussion started between property owners and the local non-profit organization, Great Land Trust (GLT), about the potential to conserve Anchorage's last unprotected estuary. Ten years later the ownership transferred to the Municipality of Anchorage (MOA) with GLT as holder of a Conservation Easement that provides strict controls over use and development of the property in perpetuity. Now the joint owner and holder, the MOA and GLT, are looking to make this unique property, the Campbell Creek Estuary Natural Area (CCENA), accessible to the public while preserving those values that the Conservation Easement seeks to protect.

Overview

Landscape & History

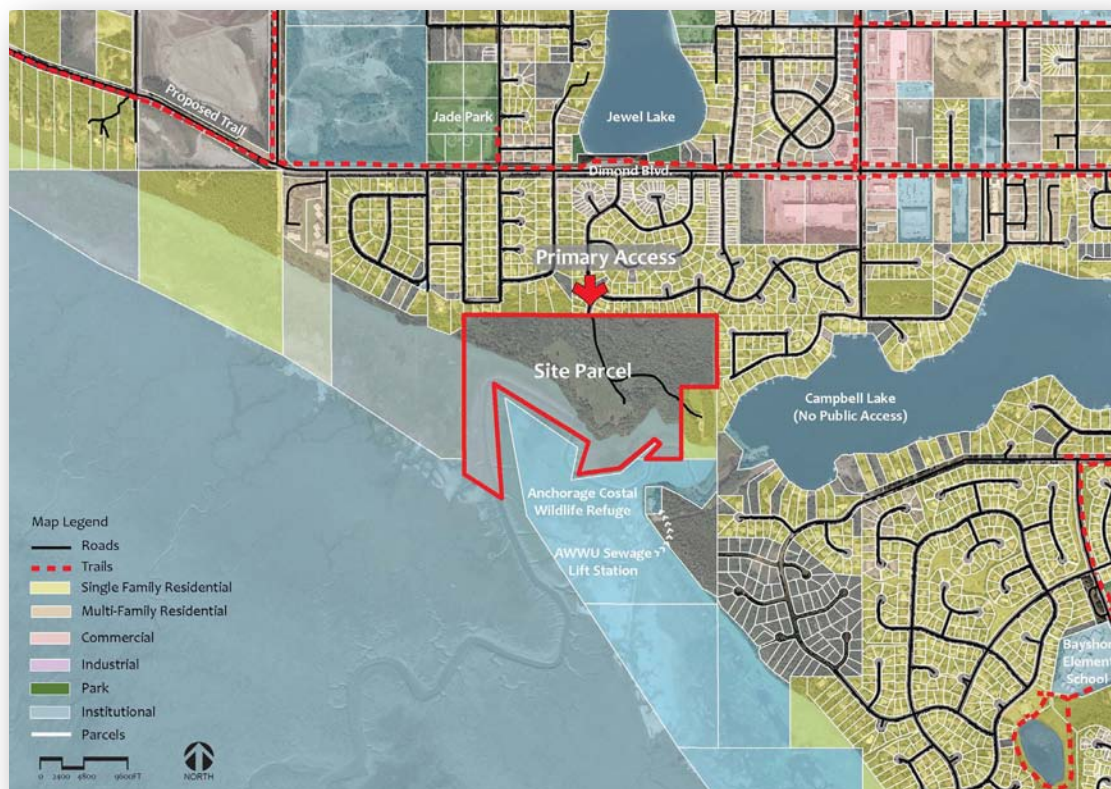
The Campbell Creek Estuary Natural Area (CCENA) is a 60.71-acre site on the coast of southwest Anchorage. Relatively undeveloped, this property borders an urban neighborhood to the north, and the Anchorage Coastal Wildlife Refuge to the south.

The southern half of the property is an estuarine intertidal emergent wetland ecosystem where fresh groundwater, inlet tides and Campbell Creek merge. The National Wetland Conservation Plan regards this as a “declining wetland community” (GLT, *Baseline*). Bordering the wetland is a 25 to 45 degree slope covered by a deciduous canopy and understory. The remainder of the property consists of relatively flat uplands with native deciduous woodlands, a spruce forest, herbaceous vegetation, a spruce bog and an



Map 1: Anchorage context map.

open meadow. Its location and land formation make the site ideal for views into the estuary and out to the inlet and surrounding mountains.



Map 2: Neighborhood context map.



Map 3: Site assessment map.

The property is home and gateway to an abundance of terrestrial wildlife, birds, and aquatic species. The National Audubon Society considers the estuary one of two “Important Bird Areas” in Anchorage serving as migratory grounds and habitat to multiple species of shorebird. Sandhill Cranes migrate and nest within the area. Beluga whales, listed as endangered in 2008 under the Endangered Species Act, have been observed feeding on runs of salmon that spawn up Campbell Creek. The intact forest is forage and bedding grounds for moose and habitat for other local mammals.

Traces of modern human inhabitants are seen in the meadow, where goats, hogs, sled dogs and horses were once kept and bare ground where volunteers removed vacant structures. Structures included a house, a small barn, Quonset huts and shipping containers. The house and barn were built in the 1930’s and 1940’s when it was known as the Olly Olson Homestead. Shipping containers, quonset huts and an existing dirt road that traverses the property to the adjacent 5-acre parcel were added by subsequent owners.

This background information is derived from *Campbell Creek Estuary Anchorage, Alaska Baseline*

Documentation for a Conservation Easement which provides comprehensive information on the history, geology, wildlife, vegetation and existing conditions.

Ownership & Stewardship

In November of 2010 the title of the property shifted from the previous owners to the Municipality of Anchorage (MOA). Great Land Trust worked with the MOA to establish conditions that would protect the site's resources and establish standards for development. The result was a Conservation Easement that established values and restrictions on the property. As "owner", MOA will facilitate development of appropriate public access and maintenance while the GLT will act as stewards of the established values, in perpetuity, to ensure the resources are not compromised.

The assets of the site have led to diverse funding sources including private and governmental organizations. These include, U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, Alaska Sustainable Salmon Fund, U.S. Army of Corps Engineers, the Coastal Impact Assistance Program, The Nature Conservancy, Rasmuson Foundation, Ducks Unlimited, ConocoPhillips, National Fish and Wildlife Foundation and numerous private individuals. This array of support comes from the common vision that this property is worth protecting and that it has tremendous potential for the public to enjoy and learn. It is vital that the property be maintained and used recognizing the standards of conservation set by the easement and those interested parties that have contributed to the acquisition, protection, and maintenance of Campbell Creek Estuary Natural Area (CCENA).

Role of the Conservation Easement

CCENA's wildlife resources, water resources, forest and woodland resources, scenic resources, and the potential for public education and recreation are considered valued assets worth preserving. The easement addresses the protection of these resources with specific objectives to:

- Provide opportunity for an outdoor classroom for area schools
- Protect quality of water resources for infiltration, detention, storm water, and habitat
- Promote biologic diversity of un-fragmented forest/woodland
- Protect native species and continuous canopy
- Prevent establishment of non-native species
- Store carbon and offset by-products of burning fossil fuels and particulate production
- Protect large habitat patches, increasing species health and survival
- Enhance connectivity to the Anchorage Coastal Wildlife Refuge
- Protect scenic vistas
- Protect upland and estuarine habitat by keeping it an undisturbed state



Image 3: Aspen stand in northwest corner of meadow.

Summary of Restrictions per <i>Conservation Easement</i>			
Area	Permitted	Subject to Review	Limitations/Prohibited
Resource Protection Area (RPA)	<ul style="list-style-type: none"> - Regulatory signs - Habitat enhancement - Bird houses - Bat houses - Plantings of native species - Emergency vehicle use - Removal of invasive species - Seasonal closure 	<ul style="list-style-type: none"> - Fences, walls or gates that maintain or improve conservation values. - Trails (porous or boardwalk in wet areas) - Restoration activities - Enhancement/restoration of wet areas 	<ul style="list-style-type: none"> - All improvements are prohibited except those permitted by Article IV of the <i>Conservation Easement</i> - Vehicular use - (This is the most restrictive area)
Restricted Use Area (RUA)	<ul style="list-style-type: none"> - Everything permitted in the RPA - Removal of existing debris - Signs, not including regulatory signs (limited to maximum 8 sq. ft. per sign; total amount of signs not exceed 20) - Fertilizers that don't affect habitat adversely - Amenities described in RPA 	<ul style="list-style-type: none"> - Cutting of trees to create and maintain two viewpoint/outlook areas - Removal of vegetation to maintain meadow/edge habitat - Piling of brush & vegetation 	<ul style="list-style-type: none"> - Access Drives are limited to existing unpaved driving surfaces - Introduction of invasive species
Limited Development Area (LDA)	<ul style="list-style-type: none"> - Everything permitted in the RPA and RUA - Utility improvements - Interpretive signs - Access road - Gates - Fences - Bollards - Parking areas - Gazebos - Outhouses - Kiosks 	<ul style="list-style-type: none"> - Paved surfaces 	<ul style="list-style-type: none"> - Must be consistent with conservation values - Use Best Management Practices - Introduction of invasive species
This list is extracted from the language in the <i>Conservation Easement</i> . Please reference that document for precise descriptions of allowed improvements and activities.			

Table 1: Conservation Easement restrictions.

To achieve these objectives the Conservation Easement has set restrictions to development. The restrictions are based on three zones: Resource Protection Area (RPA), Restricted Use Area (RUA), and Limited Development Area (LDA). Creating three areas appropriately distributes activity where it will have minimal impacts. (See *Map 3* on p.6 and *Map 5* on p.24 for zone delineation)

The RPA consists of the wetlands in the southern half of the property where Campbell Creek meets the inlet. Because wetlands are such a sensitive ecosystem the easement has prohibited nearly all development. (See *Table 1* and the Conservation Easement for specific constraints)

The RUA consists of the uplands not including two rectangular zones. Consisting of diverse ecosystems, this area provides various habitat types and has the potential to provide for carefully-considered human access. This zone has a dirt road within an access easement that runs from the end of Selkirk Drive through a deciduous forest and spruce forest to a private 5-acre parcel in the southeast. An additional access easement is set on the east property line for a potential future road connecting the 5-acre parcel to Lennox Drive. (See *Table 1* and the Conservation Easement for specific constraints)

The LDA includes two rectangular zones, 31,200 sq. ft. each, at the end of Selkirk Drive and Lennox Drive. The purpose of these zones is to provide access and amenities that complement appropriate activities within the site while maintaining conservation values. (See *Table 1* and the Conservation Easement for specific constraints)

Process



Image 4: Public meeting site walk.

Great Land Trust and the Municipality hired USKH to produce a Master Plan for CCENA in the effort to maintain the conservation values while making the property publicly accessible. Developing the master plan included an initial environmental site analysis and a public outreach program (see *Appendix A* for a summary of the public process). The goal of the planning process was to engage the public to create a comprehensive strategy for development that embraces the values of the Conservation Easement. The result is a synthesized plan that reflects objectives of the owners and desires of the public.



Image 5: Campbell Creek Estuary (Carl Johnson).

MASTER PLAN

The master plan for the Campbell Creek Estuary Natural Area includes a physical design with management suggestions, resource protection strategies, and phasing for development. The Master Plan is generated from layering the baseline document research, Conservation Easement values and constraints, the environmental assessment, and public input. This is a living document that can be updated in perpetuity.

Vision Statement

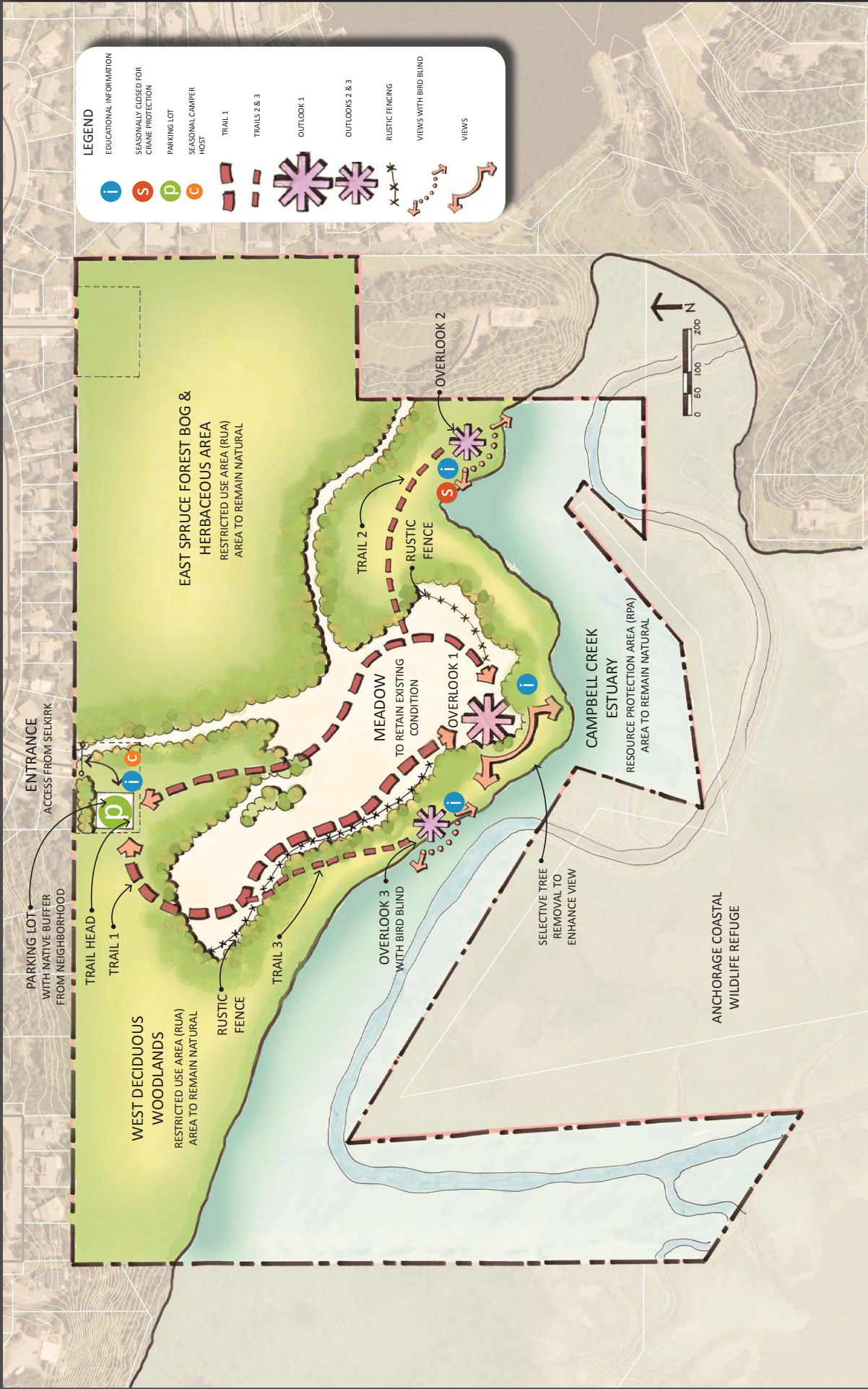
Developed during the public involvement process the following is a Vision Statement for the Campbell Creek Estuary Natural Area. This statement acts as a guiding philosophy for design and management decisions.

Campbell Creek Estuary Natural Area is a unique community asset that in perpetuity:

- Provides un-fragmented upland and coastal habitats directly connected to the Anchorage Coastal Wildlife Refuge*
- Provides undisturbed habitat for the proliferation of native plants and animals*
- Provides spectacular views of resources within the property and to mountains, the coast, and Campbell Creek Estuary*
- Provides an outdoor learning opportunity for estuary visitors now and for future generations*

Image 6: Sedge in the estuary.

CAMPBELL CREEK ESTUARY NATURAL AREA MASTER PLAN



Map 4: CCENA master plan.

Design & Management

The following section lists and describes development recommendations for specific features, design elements and management strategies for the property. These suggestions evolved from public input to ensure the community's desires are balanced with the property's conservation goals.

Character

The design and development of the Campbell Creek Estuary Natural Area should maintain the existing natural quality of the site. Existing human disturbances that don't overlap with intended use should be remedied with revegetation methods (see sub-section revegetation for suggestions). It is recommended that the design elements remain relatively natural. The viewing platform and structures for information should be predominately made of wood or other natural materials. Security features and circulation controls should use native vegetation, boulders, rustic fencing, or signs.

Entrance

The most appropriate entrance to CCENA is from the end of Selkirk Drive, as decided through the public input process. An unpaved road will extend from the end of Selkirk. A lockable gate should be placed near the entrance for security. A sign with the site's final name should be placed near the entry and fit the natural character.

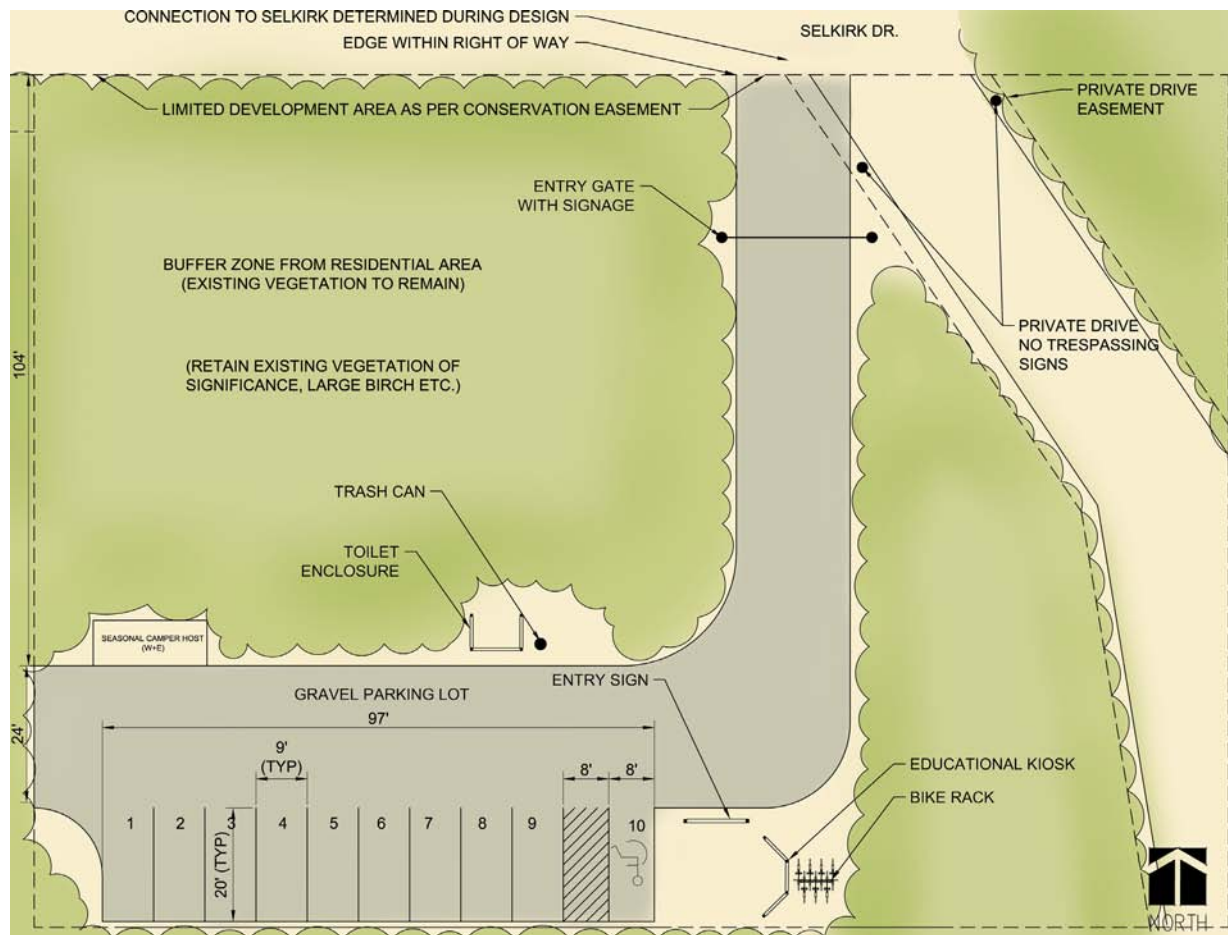


Image 7: Moose bark peel on aspen stand, opportunity for education and interpretive material.

Parking Lot

The goal of the parking area is to allow sufficient car space with the least amount of construction alteration, to be secure and secluded, and to meet easement requirements. (See *Diagram 1* for parking lot layout concept and dimensions).

The concept layout was done to demonstrate the space the parking lot could potentially take up in the Limited Development Area. The parking lot should be gravel and consist of ten spaces, one of them being accessible. This concept provides the largest possible natural buffer between the parking lot and neighbors. The design and parking lot layout should meet municipal standards. Amenities to include: port-a-potty with enclosure, bear proof trash receptacle, caretaker space and bike rack. Boulders

Diagram 1: Parking lot concept configuration.

should be placed along the edge for security and to delineate the parking from the paths. Water runoff from the parking area should be mitigated using Best Management Practices (BMPs as described in the Conservation Easement and encouraged from the Municipality of Anchorage such as a “rain garden”).

Trailhead

The trailhead would be located adjacent to the parking area. A kiosk should include rules, a map, educational information, list of funding sources and volunteers, and warnings about prohibited areas, and resource protection. A wide enough space should be provided to accommodate a class-sized group to gather along with a few benches.

Trail 1

The main trail through the site would start at the Selkirk parking lot, go through the west deciduous woodlands, continue into the meadow with a southeast vista, and follow the bluff’s vegetative edge to the viewing platform. The trail would continue along the meadow’s north edge back to the parking lot. The trail would be offset from the existing road to avoid pedestrian access to the private road. The preferred material would be woodchips and gravel over dry soils, and boardwalk in wet and formal rest areas such as the overlooks. The path would be consistently 36 inches with 60 inch x 60 inch passing space at 200’ intervals. All improvements for this trail would need to comply fully with ADA recommendations:



Image 8: Views into the estuary and beyond.

- Minimum of 36" width
- Cross slope maximum 2%
- Passing space interval maximum 200 ft.
- Rest area maximum 900 ft.
- Maximum running grade of 5%

Overlook 1

A small viewing platform with railings and benches at the southern point of the bluff is proposed to provide views of wildlife into the estuary and beyond. The design concept would provide a cantilevered deck to reduce the amount of clearing required. Trees should be selectively removed to enhance the view. The overlook should remain intimate. Educational material should be located here (See Interpretive suggestions).

Rustic Fence

To protect the bluff slope and control circulation it is recommended that a rustic fence extend from the southwest edge of the meadow to the first overlook at the southeast corner. A break in the fence should be provided for access to the 3rd overlook.

Because of the sensitive estuary ecosystem and crane nesting habitat it is also recommended that a rustic fence be placed along the east edge of the meadow, blocking the existing trail down into the estuary at the southeast end of the bluff.

Signs educating visitors on why access is prohibited should be included along the fence. This is an opportunity to reference the property's developmental history by visually suggesting the fence as a relic of the homestead era.

Security

With any public space a level of security should be maintained to protect the health and safety of the community. Given the necessity of some 24-hour presence to deter late-night intrusions, a caretaker was determined to be appropriate. Natural barriers and appropriate signage should be placed throughout the site to control access.

On-Site Caretaker

Space is provided for a seasonal onsite caretaker in the Limited Development Area (LDA) adjacent to parking. The agreement for a caretaker is mirrored after other programs used in Anchorage; the caretaker is provided space for a trailer/camper with the responsibility of maintaining security of the site.

Policies/Rules

The following rules are suggested to maintain quality and regulate its character. Displaying these requirements at the entrance in an entry kiosk is appropriate.

Please:

- Respect wildlife
- Respect other visitors
- Keep noise level down
- Use provided restroom
- Dispose all trash in appropriate receptacle

Prohibited:

- Accessing restricted zones
- Bikes, except during winter (Nov – March)
- Motor vehicles
- Domesticated animals * (Please see *Dog/Animal Policy* section for specifics)

Closure:

- Time: 6am to 10pm
- Seasonal: as required to recognize habitat concerns

West Deciduous Woodlands

This area is currently compromised by social trails coming from the intersection of Jade Street and Byrd Lane (both at the park boundary and where the trail meets the meadow). Access should be detoured from this area because of the sensitive habitat for eagle and crane. Moose browse vegetation should be planted in disturbed areas; boulders and signs placed near entries to social trails to block access. The forest should be managed in accordance with Best Management Practices as described in the Conservation Easement.

East Spruce Forest, Bog & Herbaceous Area

This habitat area does not lend itself to trails and access due to the dense vegetation and moose activity. In order to maintain the vital habitat for large mammals the area should remain undeveloped. Its characteristics should be discussed in interpretive material at the entry or overlooks. The forest should be managed in accordance with Best Management

Practices as described in the Conservation Easement and should be monitored for the incursion of social trails.

Estuary

The estuary will be closed for public access during the spring, summer, and autumn due to the sensitivity of the ecosystem. If there are any indications that people are gaining access to the wetlands, immediate action should be taken (see *Table 2* for suggestions). Interpretive material at the entry or the viewing platform should address this unique landscape.

Meadow

It is recommended that the meadow be maintained only as to retain current form and condition. Invasive species should be identified and removed appropriately.



Image 9: Current state of the meadow area.

Interpretative Suggestions

Educational material should be presented at the trailhead, and at the overlooks. Signs should meet the standards from the Conservation Easement and maintain a natural character. Potential topics: history of human influence on the property, geology, wildlife, human relationships with nature, aspen stands, moose bark peeling, estuary ecosystem, water cycle, Sandhill Cranes and overall ecosystems in the area.

Revegetation

Revegetation is recommended in disturbed areas where development will not be taking place. Because moose browse is decreasing in the Anchorage bowl enhancing moose browse of willow, aspen and birch shrubs is recommended. Plantings should be transplants, propagated cuttings from on-site or native grasses present on-site. Areas with compacted soils should be scarified. Planting should incorporate humus and mulch to add moisture and nutrients to disturbed soils.

Partnerships

Development of this plan and the overall vision of the site have been due to the numerous citizens and groups that have dedicated their time. Relationships should continue to be cultivated to guide future construction and educational programs which users will help create over time.

Overlook 2

A second viewing platform is proposed east of the main overlook. This would be a more secluded location within the dense vegetation. The goal of the second overlook with bird-blind is to provide a formal location to view birds and estuarine habitat without disturbing nesting birds. Not providing a formal access



Image 10: Eagle's nest in bluff canopy.

point for the public could encourage social paths and lead to unwanted harm to the surrounding habitat.

Trail 2

Access to the second overlook location would be via a second trail. It is recommended that the trail meet ADA code as long as the environmental quality can be maintained, the easement is not compromised, and the vision statement is met.

Overlook 3

The third proposed viewing platform is west of the first along the bluff. The intention of this platform is to provide an experience near the wetland and up close views of the creek and vegetation. The



Image 11: Estuary during the winter

primary concerns are to protect estuary soils and vegetation and avoid disturbing the existing mammal corridor.

Trail 3

The third trail would connect trail 1 to the third overlook. It is important that the trail design does not compromise slope stability or impede on the large mammal corridor that runs along the edge of the bluff.

Existing Trail into the Estuary

An existing trail runs down the southeast bluff to the estuary. Due to the proximity of the trail to Sandhill Crane nesting habitat it is recommended that the trail be closed and revegetated. A rustic fence at the top of the slope should deter visitors from access.

Dog/Animal Policy

Restricting dogs/animals on the property is a management recommendation that will require an additional MOA legislative process, namely the Assembly will have to adopt an ordinance to prohibit dogs on the property.

Winter Access

It is recommended that winter access into the estuary wetlands not be advertised or maintained at this site. If access is maintained in the winter people might access the area during nesting and migrating seasons. Also creating any new access points for winter use will leave a construction footprint that could be abused in the summer.

Resource Protection Strategy *Limits of Acceptable Change*

Philosophy

The potential for degradation of resources and amenities is a reality in making CCENA publicly accessible. Vandalism, littering, entering off-limit areas, and basic overuse that comes with time are potential impacts and planning for them is vital. The Limits of Acceptable Change (LAC) is a framework used by federal agencies as a means to maintain desired conditions of recreational natural areas (Stankey, 1985). The LAC method of management defines desired characteristics of a recreational area, determines what resources and social conditions give the area its preferred character, establishes qualitative limits of change at which the conditions are compromised, and a method to manage the issue. This concept was used as reference to develop a modified LAC for CCENA.

Strategy

The goal of opening CCENA is to provide walking, wildlife viewing, access to scenery, and education while minimally impacting the natural environment. This natural area has specific conditions, both natural and social, that create a desired atmosphere. At some point these conditions may be compromised and action should be taken to heal or resolve the issue. This LAC provides limits of change for when action should be taken.

The process to set standards came from answering four questions:

- What resource and social conditions create quality and character of place? (Factor)
- At what point is the character of that factor compromised? (Indicator/Standard)
- What caused the issue? (Evaluation)
- What are appropriate solutions to protect the resource? (Recommended Prescriptions)



Image 12: Campbell Creek in the estuary.

Responses are categorized by factor, given multiple indicators with standards, a list of possible reasons for damage and a list of possible solutions.

This LAC can be used to evaluate site conditions, prescribe solutions, and take action. For example, if during scheduled yearly inspection by GLT under the easement requirements, numerous social trails have developed in the west woodland and the issue is lack of information and an under-defined trail; a prescription could be native plantings, obstacles on the social trail, a rustic fence and signs that tell visitors that off trail walking is prohibited.

Another example would be if the on-site caretaker saw paths going out to the estuary during the summer. Actions could include adding additional signs and fencing or restricting the area to docent led tours only.

This method of analyzing conditions is recommended in conjunction with the requirements in the Conservation Easement. The evaluation and recommended prescriptions for the LAC indicators are speculative and any future obstruction of standards should consider possibilities and solutions not listed. Budget will play a big factor into what solution is most appropriate.

Limits of Acceptable Change Table

<i>Factor</i>	<i>Indicator/Standard</i>	<i>Evaluation & Recommended Prescriptions</i>	
Trail Condition	Braiding Trail Widening Social trails in upland areas	Trail failure Too many people Public is accessing protected areas	Reinforce trail structure Add signage Maintain as trail Add rustic fence
Parking Space	Excessive street parking	More visitors than predicted	Expand parking Docent led tours Restrict hours or days open
Waste Control	Littering/Dumping	Receptacle not maintained Receptacle not convenient	Increase maintenance Increase number of receptacles Change location Add signage Adopt-A-Park Program
Protection of Estuary	Social trails into wetland Signs of Disturbance	Barriers aren't sufficient People want better access	Extend rustic fence Add signs seasonal closure
Noise	Noise pollution from park – complaints by neighborhood	Noise (from parking lot) Excessive visitors	Move trail head Change hours Docent led tours
Relative solitude	Amount of people in the area at once	More visitors than predicted	Decrease parking space Docent led tours Add visitor restrictions Increase number of trails

Table 2: Limits of acceptable change table.

Phasing

Development of CCENA has been divided into phases to develop slowly, as recommended by the public, and for plans to adjust over time with budget in mind.

Phase I Improvements

The following improvements should be implemented prior to opening the area to the public.

Improvements are slated to begin during the 2013 construction season.

- Summer 2012/13, cuttings and propagation for revegetation the following year (possibly done by the Youth Employment in Parks (YEP))
- Entrance drive
- Parking lot with amenities
- Trail 1
- Overlook 1
- Signage
- Utilities
- Trail 2
- Overlook 2
- Trail 3
- Outlook 3
- YEP Improvements
- On-site Caretaker

Phase II Improvements

Phase II improvements could occur the summer after the opening and continually as needed:

- Additional signage
- Revegetation of roads and any damage from construction
- Meadow invasive species work

Variable Improvements

The 5-acre property to the southeast is privately owned and occupied by a tenant. Future investigation into acquisition is recommended to expand CCENA. Doing so would provide space to develop additional amenities, strengthen preservation of the intact bluff canopy and enhance overall conservation of the area. Key improvements include:

- Acquire 5-acre parcel to the southeast property
- Build road to 5-acre parcel and repurpose or demolish existing dirt road

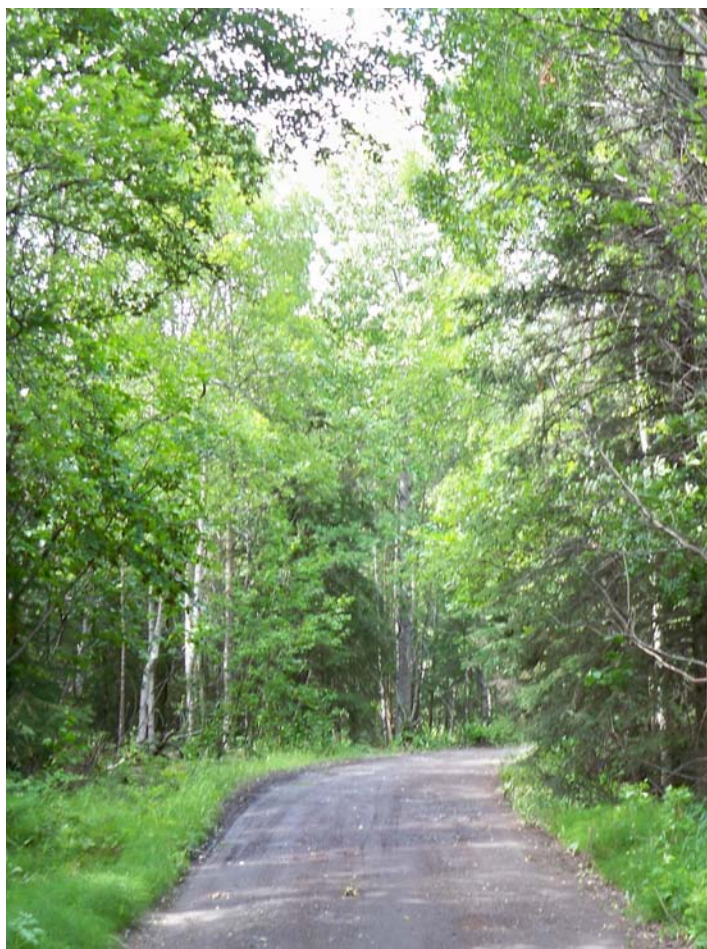


Image 13: Existing road with summer vegetation.

Resources

Great Land Trust, Inc. *Conservation Easement*. Anchorage: November 30, 2010. Print

Great Land Trust, Inc. *Campbell Creek Estuary Anchorage, Alaska Baseline Documentation for a Conservation Easement*. Anchorage: November 11, 2010. Print.

Stankey, George H.; Cole, David N.; Lucas, Robert C.; Petersen, Margaret E.; Frissell, Sidney S. *The Limits of Acceptable Change (LAC) System for Wilderness Planning*. General Technical Report INT-176. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station; 1985. 37 p.

United States Access Board. *Regulatory Assessment Accessibility Guidelines for Outdoor Developed Areas*. Washington, DC: April 2007. Web. July 2012.

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Photo Credit

Cover Image	Carl Johnson
Image 1	Baseline Documentation for a Conservation Easement, GLT
Image 2	Baseline Documentation for a Conservation Easement, GLT
Image 3	USKH
Image 4	USKH
Image 5	Carl Johnson
Image 6	Baseline Documentation for a Conservation Easement, GLT
Image 7	USKH
Image 8	Baseline Documentation for a Conservation Easement, GLT
Image 9	Baseline Documentation for a Conservation Easement, GLT
Image 10	USKH
Image 11	USKH
Image 12	Baseline Documentation for a Conservation Easement, GLT
Image 13	Baseline Documentation for a Conservation Easement, GLT
Image 14	USKH

Appendix A

Public Involvement

The public involvement process was used as a forum to notify the public about the project, receive comments and concerns, and develop the plan as a community. The public was integral in creating a vision statement, schematic alternatives and the final plan. A total of three stakeholder group meetings and two public meetings were conducted in the summer of 2012 at the Bayshore Club House in southwest Anchorage.

The stakeholder advisory group included representatives from:

- Friends of the Anchorage Coastal Wildlife Refuge
- Bayshore/Klatt Community Council
- Sand Lake Community Council
- US Fish and Wildlife Service
- MOA Parks



Image 14: Public meeting group discussion.

- Anchorage Assembly
- Campbell Lake Homeowners Assn.
- Neighbors
- Alaska Department of Fish and Game
- Rasmuson Foundation
- ConocoPhillips

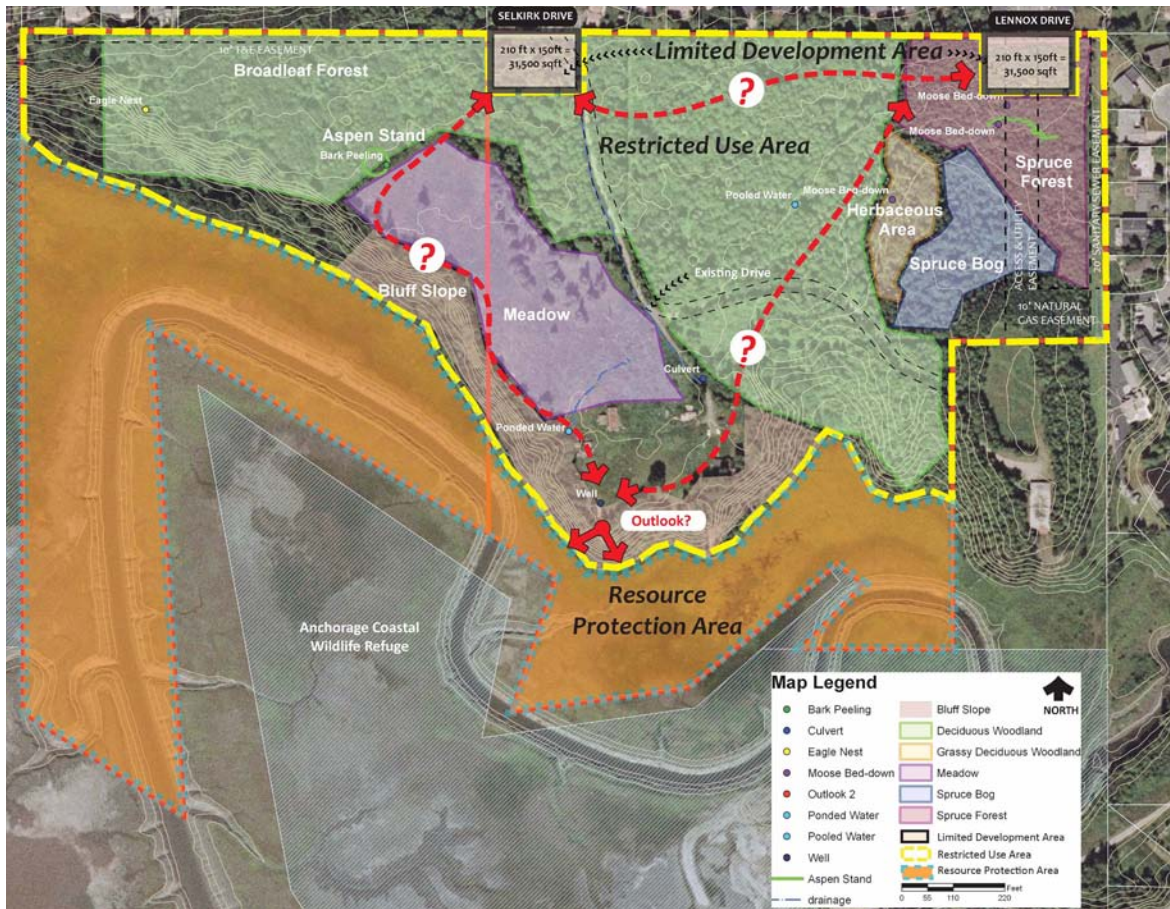
The task of the stakeholder group was to represent the interest of their constituents, ensure plans were consistent with the easement, and help develop plans for CCENA.

Table 3: Public Meeting Schedule

Date	Meeting	Attendee Qty.	Topics Covered
May 30, 2012	1 st stakeholder meeting	11	Project “kick-off”, Visions for the property
May 31, 2012	1 st Public Meeting	66-110*	Issues & Opportunities, Site walk, Brain-storming session.
June 13, 2012	2 nd Public Meeting	35-55*	Design charrette with spectrums of development and concept site layout
June 27, 2012	2 nd stakeholder meeting	14	Refine schematic design, and vision statement
August 7, 2012	3 rd stakeholder meeting	14	Site walk, design finalization.

* Both public meetings had a large turnout; the low attendance number reflects those who signed –in and the top quantity is based on a head count.

Throughout the process the public meeting minutes, relevant project documents and public input summaries were posted on GLT and Parks & Recreation project websites to keep the public updated.



Map 5: Conservation easement & environmental map.

Initial Meetings and Results

Curious citizens and neighbors came out to the first public meeting, held on May 31, 2012. Phil Shephard, the executive director of Great Land Trust, led the first half with a site tour. Attendees walked existing paths while Phil discussed history and key landscape features. After the site walk, the group participated in a workshop at the Bayshore Clubhouse where the environmental analysis was presented (*Map 5*). Small groups then discussed opportunities and concerns for the site. Comments were collected during group discussions and input forms and then consolidated and reformatted into two exercises for the second public meeting held on June 13th.

The second meeting engaged the public in a spectrum of development exercise. Potentials and issues outlined at the first meeting were categorized into 10 topics. Each topic was given four options ranging from least developed to most developed. (See *Diagram 2* for the spectrum of choices)

This spectrum of choices was distributed to 10 groups of 3-8 people at the second public meeting. Their task was to individually vote by placing a dot in the option they felt most appropriate for the category. Where opinion differed with options additional choices were written in. (See *Diagram 2* for voting results) Although there were outlying votes, the majority of votes favored the less developed end of the spectrum.

Results from 2nd Public Meeting (6/13/2012)

Campbell Creek Estuary Master Plan

June 2012

Spectrum of Development

PLACE A STICKER NEXT TO THE LEVEL OF DEVELOPMENT, AMENITIES OR ACTIVITIES FOR EACH CATEGORY THAT YOU FIND MOST APPROPRIATE FOR THIS SITE.



CATEGORY	LEAST DEVELOPED	SOME DEVELOPMENT	MODERATE DEVELOPMENT	MOST DEVELOPED	ADDITIONAL COMMENTS
Experience	NATURAL/LEAST DEVELOPMENT 10 Supervised docent-led tours only, closed except by permit, a few trails	SOME DEVELOPMENT 18 Trails, some structures, self-guided, walking, bird-watching	MODERATE DEVELOPMENT Trails, decks, amenities, multiple trails, information throughout site	HIGHLY DEVELOPED In limited development areas, covered structures, throughout site, decks, amenities, multiple trails	<ul style="list-style-type: none"> - Access by permit only. - Cranes! - Sensitive bird nesting area - Some development with decks and info
Education	1 NONE No information on site except for minimal signage at entry	INFORMATION IN PARKING LOT 13 Brief information at entry/trail head	INTERPRETIVE PANELS THROUGHOUT SITE 12 Multiple topics, multiple panels	STRUCTURE FOR OUTDOOR CLASSROOM Amphitheater, gathering space for educational purposes	<ul style="list-style-type: none"> - Make primary use. - User groups assume most responsibility. - Phase info, first in parking lot then throughout site
Trail Surface	NARROW COMPACT SURFACE 12 Narrow compact surface	NARROW WOODCHIP OR GRAVEL 13 Narrow woodchip or gravel path	BOARDWALK/OPEN GRATE 5 Boardwalk or open grate	WIDE GRAVEL TRAIL Wide gravel trail	<ul style="list-style-type: none"> - Plastic netting that will allow drainage and vegetation. - No bikes
Overlook	WIDE SPOT IN TRAIL 6 Wide spot in trail with seating area	SMALL DECK 17 Small deck	LARGE DECK Large deck	CANTILEVERED STRUCTURE Cantilevered structure	<ul style="list-style-type: none"> - Respect crane habitat - Do not put deck out in marsh
Parking Lot(s)	NONE ON LENNOX 5 No parking lot on Lennox	SINGLE LOT, (5-10 SPACES) 12 Single parking lot with 5-10 spaces	SINGLE LOT, (10-20 SPACES) 11 Single parking lot with 10-20 spaces	TWO LOTS, (5-15 SPACES EACH) 2 Two parking lots with 5-15 spaces each	<ul style="list-style-type: none"> - Bus and van parking provision
Access/Circulation	NONE 2 No access/circulation	ONE LOOP 15 One loop trail layout	TWO LOOPS 6 Two linked loops trail layout	TRAILS TO ALL HABITAT TYPES 2 Multiple loops accessing all habitat types	<ul style="list-style-type: none"> - User groups develop based on importance. - Include controlled access to showable parts of estuary/mudflats - Minimal trail development
Bathroom	19 Port-a-potty with decorative screen	PORT-A-POTTY 9 Port-a-potty with decorative screen	CONCRETE VAULT 2 Concrete vault	FULL SERVICE WATER & SEWER Full service water and sewer	<ul style="list-style-type: none"> - Prefer none but vault if necessary and van parking provision
Meadow	NO MAINTENANCE 14 Meadow with no maintenance	PARTIALLY MAINTAINED 11 Meadow with partial maintenance	MAINTAINED AS HABITAT LOW FREQUENCY 4 Meadow maintained as habitat with low frequency	MAINTAINED AT HIGH FREQUENCY Meadow maintained as habitat with high frequency	<ul style="list-style-type: none"> - Let it evolve - Maintain as habitat with native plant variety
Security	SIGNS 1 Signs in parking lot	GATE 22 Locked gate to parking lot	SEASONAL CAMPER HOST 8 Location provided without on-site facilities	FULL TIME CARETAKER 3 Location provided without on-site facilities	<ul style="list-style-type: none"> - Electrical and water should be provided for camper host. - Seasonal camper host with periodic security service drive by. - No full-time host - No lights - Phase in full time caretaker if crime starts up - Yes to gate, unsure on lights
NO DOGS	ON-LEASH 2 On-leash signage, no additional amenities or barriers	DOG-USE INSTRUCTIONS (RELATED TO SENSITIVE HABITAT) 2 Dog-use instructions related to sensitive habitat	HABITAT FENCING Fencing blocks dog access to sensitive habitat	ALL ITEMS INCLUDED 1 All items included	<ul style="list-style-type: none"> - No dog amenities.

Diagram 2: Spectrum exercise results

Schematic Alternatives

Schematic Alternative 1

The second exercise was to draw physical plans on the site map. Groups drew trails, outlooks, fences, parking lots and other amenities they envisioned.

The schematic drawing (*Map 6*) is the combination of each group's design in a graphic format. Consensus is represented by larger graphic symbols while conflicts are highlighted with a red circle.

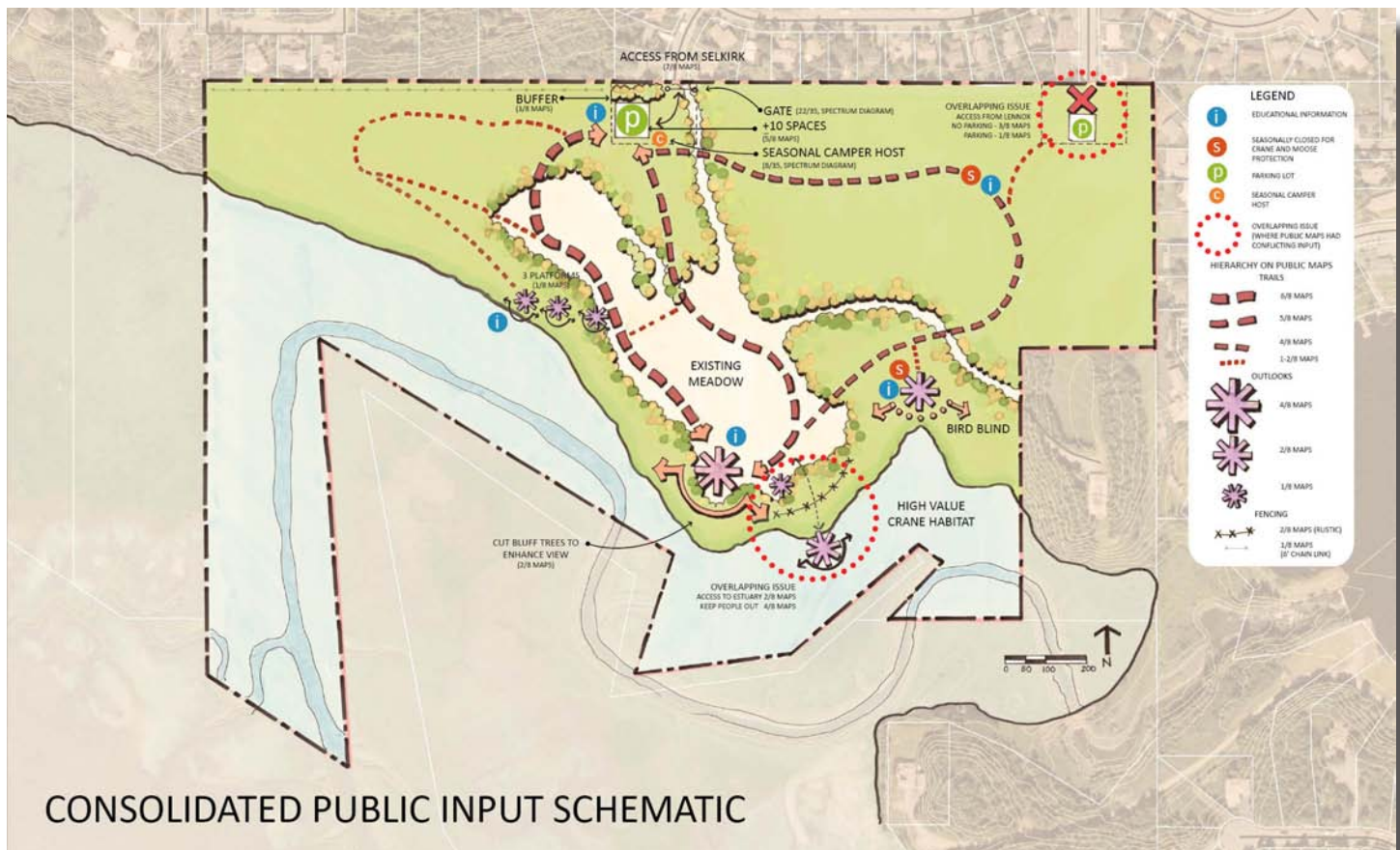
The features most drawn include:

- One main loop around the meadow
- The outlook at the edge of the bluff
- 10 car parking lot at the end of Selkirk with a buffer from neighbors

Features of conflict:

- Parking at Lennox
- Boardwalk into the estuary

Despite some differences, many drawings reflected a similar level of development, showing a few trails and outlook spots. Attendees shared a concern to protect the crane-nesting site and ensure the easement values were not compromised.



Map 6: Consolidated public input schematic.

Schematic Alternative 2

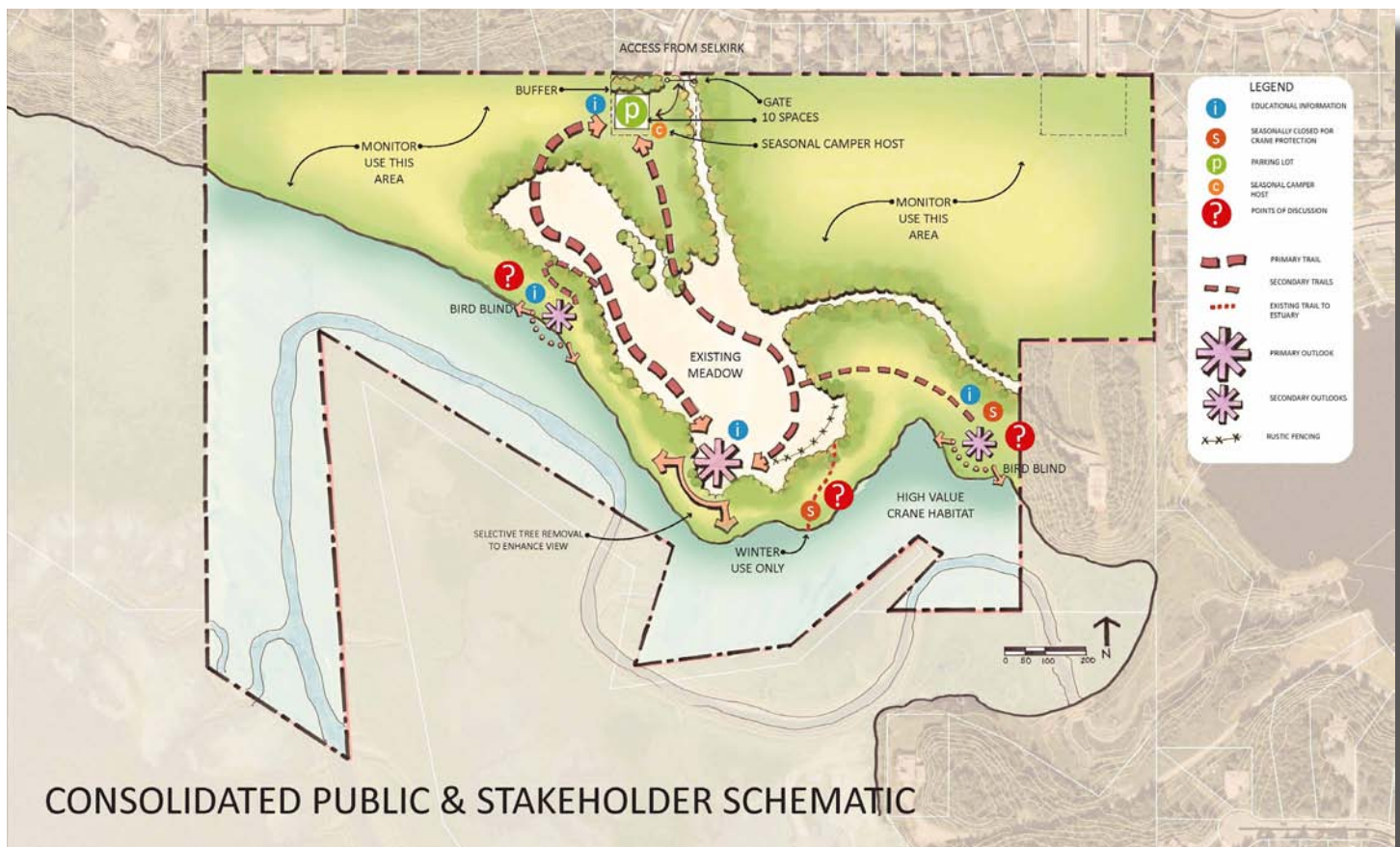
The consolidated map from the public meeting was presented to the stakeholder group. This provided an opportunity to critique proposals and resolve conflict areas. Points of accord included: creating one main trail to one outlook, a single parking lot with 10 spaces, an entry kiosk with interpretive material and rules, an enclosed port-a-potty, seasonal caretaker, bike racks, trash receptacle, and lockable gate. (See Map 7 for graphic representation of compromise and concern)

The two conflict areas were quickly resolved. The first, the access from Lennox Drive was dismissed as a viable proposal. This road already has drainage issues and access might intrude in moose bed down area.

The second conflict, access down into the estuary was determined as inappropriate considering the sensitive crane habitat. Instead, the stakeholder group thought deterring people from that area with a rustic fence to be the most appropriate solution.

Results and Concerns

The final preferred schematic was the product from the final meeting. This consisted of an on-site evaluation of potential development areas and discussion over management and phasing.



Map 7: Consolidated stakeholder schematic.