

**ASSEMBLY STANDING COMMITTEE
LANDS AND RESOURCES COMMITTEE
THE CITY AND BOROUGH OF JUNEAU, ALASKA**
September 28, 2015, 5:00 PM.
Municipal Building Assembly Chambers

I. ROLL CALL

II. APPROVAL OF AGENDA

III. APPROVAL OF MINUTES

- A. August 24, 2015 Lands and Resources Committee Meeting Minutes - DRAFT

IV. PUBLIC PARTICIPATION

(Not to exceed a total of 10 minutes nor more than 2 minutes for any individual).

V. AGENDA TOPICS

- A. Wetlands Management Plan Update

VI. STAFF REPORTS

VII. COMMITTEE MEMBER / LIAISON COMMENTS AND QUESTIONS

VIII. ADJOURNMENT

ADA accommodations available upon request: Please contact the Clerk's office 72 hours prior to any meeting so arrangements can be made to have a sign language interpreter present or an audiotape containing the Assembly's agenda made available. The Clerk's office telephone number is 586-5278, TDD 586-5351, e-mail: city.clerk@juneau.org

MINUTES

Assembly Standing Committee
LANDS AND RESOURCES COMMITTEE
The City and Borough of Juneau, Alaska

August 24, 2015

I. ROLL CALL

Jesse Kiehl, Chairman, called the Regular Meeting of the Lands and Resources Committee, held in the Assembly Chambers of the Municipal Building, to order at 5:00 pm.

Members present:

Jesse Kiehl, Chairman; Assembly Members: Mary Becker, Kate Troll; Liaisons: Bill Peters, Planning Commission; Mike Peterson, Docks & Harbors Board

Members absent:

Jerry Nankervis (attempted telephonic attendance but was unable to connect); Chris Merti, Parks & Recreation Advisory Committee

Assembly Members Present:

Karen Crane, Loren Jones

Staff present:

Greg Chaney, Lands and Resources Manager; Dan Bleidorn, Deputy Lands Manager; Carl Uchtyl, Port Director, Docks and Harbors; Rob Steedle, Deputy City Manager

II. APPROVAL OF AGENDA

The agenda was approved.

III. APPROVAL OF MINUTES

The draft July 13, 2015, Lands and Resources Committee meeting minutes were approved, with changes noted by Mr. Peterson and Ms. Becker that members present at the July 13, 2015, meeting be listed in the minutes. Those minutes have been edited, noted Mr. Chaney

IV. PUBLIC PARTICIPATION - None

V. AGENDA TOPICS

A. Cultural Preservation Lease

Mr. Uchtyl explained that this has been an ongoing lease which he has been monitoring for approximately the past three years. This came about at around the same time that Docks and Harbors was in intense negotiations with Goldbelt over the Mt. Roberts Tram. This parcel of property is located at the Seadrome building where Docks and Harbors has offices rented from Goldbelt, he explained.

The lease itself has existed for 15 or 20 years, said Mr. Uchtyl, and there is a requirement to have the lease be valued every three years. Earlier lease rental valuations were negotiated outside the terms of the signed lease, explained Mr. Uchtyl. Thus, in 2006 Docks and Harbors accepted a lease rent adjustment of 8% of the appraised value of the property. The actual signed lease required a 10% adjustment, said Mr. Uchtyl.

They are now trying to create a lease to which both parties can agree. The lease amendment before the Lands Committee includes language drafted by the Law Department, said Mr. Uchtyl. He said he is asking permission to have the reappraisal period changed from three years to five years. The five-year period is consistent with the City and Borough of Juneau (CBJ) ordinance, he said.

They were also asking that an algorithm of 9% of the appraised value of the property be established in place of the 10% figure existing in the current lease, explained Mr. Uchtyl. As a matter of practice in 2006, the Docks and Harbors board accepted an appraised value of 8%, he said. Goldbelt also finds a segment of its uplands not to be economical, and they are willing to return this to Docks and Harbors. Docks and Harbors is willing to accept this property, said Mr. Uchtyl, and it would be used for parking for the Seadrome building, he said.

In addition, the original lease calls for an assessed value, said Mr. Uchtyl. In discussions with the City Finance Director and Assessor, he was told they should never use the assessed value for value determination of the leased properties. This is because the assessed value uses a mass appraisal determination which does not accurately reflect the true market value of property, he explained. They want to utilize the appraised value of the property, which would also correct the deficiency in the original lease, he noted.

As a result of these changes, Docks and Harbors would be collecting almost twice the lease rent they had collected prior to 2013, said Mr. Uchtyl. These negotiations would be retroactive to 2013, said Mr. Uchtyl.

Committee Comments and Questions

Mr. Kiehl asked which piece of land specifically was being returned by Goldbelt to Docks and Harbors management.

Mr. Uchtyl explained it was Parcel A, which is a pie shaped segment of land enabling cars to park perpendicular to the waterfront, which is not useful for

Goldbelt. This proposal involving the pie shaped piece of land was vetted at a meeting in May by the Docks and Harbors board, he said.

Mr. Peterson noted that this transpired at the Docks and Harbors May 21, (2015) board meeting.

MOTION: *by Ms. Becker, to approve the Cultural Preservation Lease amendment as presented by Mr. Uchytel, which will be forwarded to the full Assembly for approval.*

The motion passed with no objection.

B. Land Management Plan

This plan can also be found on the Lands Division website:

<http://www.juneau.org/lands/documents/DraftLandManagementPlan.pdf>

Mr. Chaney reported that it has been 16 years since the Land Management Plan has been updated. They have done a lot of work on this Plan, said Mr. Chaney, and they are now ready to bring the updated Plan forward for public review.

Mr. Chaney said he was going to provide a brief overview of this Plan, which is over 100 pages in length. It is up to the Lands Committee to decide if after this presentation the Plan is ready to be presented at public hearings within the various communities of Juneau, or if the Committee felt there were issues which needed further updating before it was presented to the public.

Mr. Chaney outlined the goals and objectives of the updated plan:

1. Continue the land disposal program which systematically places CBJ land into private ownership.
2. Provide the best use of CBJ owned land for both development and preservation.
3. Conduct CBJ land disposals in a manner that provides compact urban growth and efficient expansion of municipal utilities and services.
4. Maintain the Land Management Plan as required under CBJ§53.09.180 as a comprehensive reference document, updated every two years, that establishes CBJ land management policy and provides a framework for developing regulations concerning CBJ property.

Mr. Chaney emphasized that this is a change from the last time. He explained there is now a new section in Title 53 that requires the updated Land Management Plan to have subsequent two-year updates. This should enable the Plan to be updated on a regular basis in the future, he said.

While in some ways the policies have not changed significantly, noted Mr. Chaney, the details of those policies have changed. Mr. Chaney outlined the implications of the Plan:

- ✓ Conform to 2013 Comprehensive Plan.
- ✓ Update Parks management. 1996 Parks and Recreation Comprehensive Plan needs to be updated.

Mr. Chaney noted that we have a lot of new parklands, and that within the Land Management Plan there is a section that lists management authority, and several new parcels are listed as parks. This will be the first time those parks are officially designated for park management, he noted. He distinguished this action from the formal adoption of a Park Management Plan, which would be a worthwhile endeavor, he noted.

Committee Questions and Comments

Ms. Becker asked if when the CBJ releases land such as to a contractor, if all of the Subdivision Ordinance rules would apply to the land. She noted that within the Land Management Plan there are numerous places which include stipulations and requirements which are not the same as certain parameters within the Subdivision Ordinance.

Usually the Plan requirements would be in addition to the Subdivision Ordinance requirements, answered Mr. Chaney. He added that no one is exempt from the policies outlined in the existing Subdivision Ordinance. He said the draft revised Subdivision Ordinance is not yet adopted, and after it is adopted they may need to modify certain updates within the Land Management Plan.

Mr. Chaney continued outlining the implications:

- ✓ Conduct CBJ land disposals that conform to expansion of municipal utilities and services.
- ✓ Housing demand remains strong.
- ✓ Transportation improvements must be completed to compliment land disposal proposals. Example Douglas Bench Road.

Mr. Chaney said that CBJ has performed a significant amount of upgraded zoning of North Douglas, and that the need exists for improvement of the transportation infrastructure. The North Douglas Bench Road has been planned for a number of years, and as CBJ pursues development of its property in the area, which is several hundred acres, the need for better provision of transportation infrastructure is very important.

Mr. Chaney said what is to him one of the most exciting portions of the Plan update is a new Atlas which shows the current CBJ ownership. Each property is identified with a code indicating the CBJ managing department. The black and white Atlas is accompanied by a GIS system available to the staff, which is not yet ready for public dissemination. It graphically displays the landholdings in color, he noted.

The parcel number provides access to each parcel's legal description, the size of the parcel, comments about the property, the managing department and the plans for that parcel's future disposal, explained Mr. Chaney.

The City and Borough of Juneau encompasses over one million acres of land, said Mr. Chaney, with over 15,000 of those acres zoned residential. As a result of a study performed in 2006, the City has identified about 12 lots which carry the potential for residential development. Upon further research, four of these lots have been identified as actually suitable for residential development. Mr. Chaney said he wanted to focus upon the acres that are actually suitable for development.

Roughly 25% of the cost of a home is tied to its land value, explained Mr. Chaney. In general, the number of building permits and certificates of occupancy have risen recently, which is a good trend, he noted. The certificates of occupancy always lag a few years behind the issuance of the building permit, he said.

Mr. Chaney provided options for stimulating the housing market which include:

- City sponsored subdivisions and sales
- Incentive to build promptly
- Land sales to developers
- Public/private partnerships
- Conditional sale/housing market mix
- Land donations/less than fair market value
- Community land trusts
This would include land donations for less than fair market value, commented Mr. Chaney.
- Juneau Affordable Housing Fund

Mr. Chaney also outlined the experience gained from the land sales conducted from 1999 through 2015. The CBJ has sold ninety lots during this time period,

which he noted is quite a few lots. Most of these lots are fairly small residential lots, he said.

- ✓ CBJ Subdivisions provide most predictable outcome but require large capital investments.
- ✓ On-site wastewater systems have high failure rate. Future CBJ developments should be on the public sewer system.
- ✓ Land Fund is not large enough to pay for subdivision development – CIP support needed.
- ✓ Some large tracts that were sold to stimulate housing remain vacant, need solid reversion clause or bond. They did have reversion causes in the past but they did not work, said Mr. Chaney.
- ✓ Utilities should be expanded to support land disposal.
- ✓ CBJ Property public resource, disposals must be fair and transparent.

For future land disposal programs they are recommending a combination of large and small lots composed of a mix of CBJ-sponsored development and large lot sales to the private sector, said Mr. Chaney. They would like to explore public/private partnerships in all cases, he noted.

Mr. Chaney said what he felt was the most critical part of the Plan were the parcels available for disposal.

Lena Subdivision

These include the remaining CBJ lots off of Lena Loop Road and Ocean View Drive, which are anticipated to be sold in the very near future, he said.

Near Dzantik'i Heeni Middle School

There is a region near Dzantik'i Heeni Middle School that could be developed but CBJ is waiting to see if the Juneau School District needs the site for an elementary school or for the expansion of the middle school.

Switzer Creek

There are roughly 13 acres available for disposal in the area across Renninger Drive from Dzantik'i Heeni Middle School, said Mr. Chaney. There are approximately 13 developable acres in the Switzer subdivision which has improvements out to bid, he noted. The final plat on this land has been submitted and will be going before the Planning Commission for approval, he said. If the proposed Subdivision Ordinance passes first, it would be up to the staff to approve the plat, he said.

Overlooks Lemon Creek Valley

This is a large area which overlooks the Lemon Creek Valley, said Mr. Chaney. However, there is no infrastructure in place for this parcel, he noted. It would be expensive but not too difficult to build an access road to the area, he added.

Pederson Hill Area

This is the hill of land behind Christ Lutheran Church which overlooks Auke Lake, he explained. Out of 350 acres they are focusing on the lower 30 acres of the parcel, he said. They are working with engineers now to develop cost estimates for access to that site, said Mr. Chaney. They expect ultimately about 200 lots in the area, including multi-family housing, he said.

Committee Comments and Questions

Ms. Becker asked for clarification on which portion of the highlighted land would be developed.

Mr. Chaney responded that it would be the lower portion of the lot where access could initially be gained most easily. He said they would commence development working their way up the hill since water would drain toward the bottom of the hill. He said special arrangements with downhill property owners would be much more complicated if the development was started at a higher elevation and CBJ tried to work downhill.

City Parking Lot

The City parking lot located at second and Franklin near the Baranof Hotel is being proposed for a long term lease, said Mr. Chaney.

Douglas Town Site

The Douglas town site above Fifth Street has several platted lots, said Mr. Chaney. To develop these lots Sixth Street would need to be extended, he noted. This land would be challenging to develop due to steep slopes but it is already subdivided, said Mr. Chaney. He said if this was done he would recommend giving adjacent property owners first right of refusal since they had probably lived in their homes for decades thinking that the land behind their property would remain undeveloped.

Committee Comments and Questions

Mr. Kiehl asked what purpose offering the adjacent property owners' first right of refusal would serve if the goal was to expand housing opportunities in Juneau.

Mr. Chaney responded that it would give the adjacent property owners a chance to develop the housing next to their property the way that they would prefer. He said it would help the adjacent property owners but not necessarily contribute to housing in the community.

Mr. Kiehl said that perhaps the need of all concerned would be better served by a live land auction, rather than sealed bids or minimum purchase requirements.

He said he asked because it struck him that a right of first refusal was somewhat at cross purposes to the goals of being fair and transparent in land negotiations.

Mr. Chaney said it was a suggestion for the Committee to consider, and that he felt it was fair to note that the adjacent property owners would be impacted by this development one way or another.

Bonnie Brae

There is a relatively new 17 acre area in the Bonnie Brae area in North Douglas now available because of a sewer extension, said Mr. Chaney. This is still zoned Rural Reserve, and one possibility was to make it available as a large parcel to developers, he said.

Auke Bay

There is a parcel of CBJ land in Auke Bay located to the west of the UAS Recreation Center, said Mr. Chaney. One of the overriding concerns of the Auke Bay plan (which is just in the process of being adopted) is to support Auke Bay as community and to develop connections behind the main road. This lot currently has no frontage and no access, said Mr. Chaney. This is something they would like to consider in the near future, he added.

Mr. Chaney outlined the process of the disposal of large tracts:

- | | |
|-------------------------------|-----------------------|
| ✓ Delineate Site | ✓ Public Workshop |
| ✓ Agency Review | ✓ Development Plan |
| ✓ Preliminary Title Report | ✓ Preliminary Plat |
| ✓ Sketch Plat | ✓ Construction Design |
| ✓ Reservation of Public Lands | ✓ Final Plat |

There are a lot of steps, and all of these steps take time, said Mr. Chaney.

In addition, Mr. Chaney identified various methods of disposal, which include:

- | | |
|--------------------------|----------------------------|
| ✓ Leases | ✓ Sealed Competitive Bid |
| ✓ Land Exchanges | ✓ Negotiated Sales |
| ✓ Over the Counter Sales | ✓ Disposals for Public Use |
| ✓ Outcry Auction | |

The benefit of a **long-term lease** is that the developer does not need to come up with a large cash down payment up front, said Mr. Chaney. They are performing a **land exchange** with Christ Lutheran Church to gain access to the Pederson

Hill property, he noted. A problem with **over-the-counter sales** is deciding who gets to buy the parcel if there are numerous individuals lining up to purchase it, he noted. In an **outcry auction** decisions are made by the potential purchasers on the spot, explained Mr. Chaney. The **sealed competitive bid** process is very straightforward and transparent, said Mr. Chaney. In **negotiated sales** property is purchased based upon specific terms, he said. **Disposals for public use** is a way to dispose of property to another group for some type of public use, he explained. For example they had been considering property appropriate for the Housing First project, he noted, although this did not occur.

They are often asked about the costs associated with development, said Mr. Chaney. There are too many variables to come up with one solid answer, he said, but if the land was perfectly flat and all conditions were equal, for just road construction and utility preparation the estimated amount would be about \$47,000 and \$63,000 per property, he said. That is for an average sized lot, not a large lot subdivision, he said.

The City has acquired 111 lots in the past 16 years, said Mr. Chaney.

The Land Fund is a special revenue fund which provides funding for management of City resources through the Lands and Resources Division, said Mr. Chaney. When they sell property, sell materials from the land (such as rock or gravel), or lease property, the proceeds go to the Land Fund, he explained. That money is then used for the development of future properties, he added. It is intended to be a self-sustaining model, he noted.

Recommendations in the Plan include:

- ✓ Renninger Subdivision (currently out to bid)
- ✓ South Lena Subdivision (continuing to sell the remaining lots)
- ✓ Switzer Area 3 (will take investment and careful consideration)
- ✓ Pederson Hill (land trade with Christ Lutheran Church)
- ✓ Parcel 1420 (Bonnie Brae; excellent choice for large lot disposal)
- ✓ Second and Franklin (under discussion)
- ✓ 6th Street Douglas
- ✓ Parcel 0315 (Auke Bay Uplands)
- ✓ Obtain Access to CBJ Land (keep the door open for land providing access)

Mr. Chaney asked if the Lands Committee would like the Department to come back to the Committee for further discussion before the Plan was presented to the public. After Lands Committee approval, the Plan would then be presented at public hearings within the community, a Planning Commission hearing, and then back to the Lands Committee for a review of the Plan after it has been presented to the public and the Planning Commission. If it met with approval it would go to the Assembly for final approval through adoption by ordinance, explained Mr. Chaney.

Committee Comments and Questions

Ms. Becker commented that she felt the staff has done a very thorough job on updating the Plan and that she appreciated how well laid out it was.

Ms. Troll said she noticed that all of the recommendations pertain to land that is under the auspices of the Lands and Resources Department.

Land not under the Lands and Resources Department is not within their purview, answered Mr. Chaney. He said they deferred to those departments for the management of their land.

Mr. Chaney said as the Assembly, land outside of the Lands and Resources Department could certainly be considered for development such as for an assisted care facility.

Mr. Bleidorn added that if he has an inquiry about a City property he would look at the table of all City-owned property to see if the land was to be retained or if it was available for disposal.

Mr. Kiehl said he noticed that on Page 102 of the draft Plan there is a priority acquisitions question. He said he noticed that it states that the contents of that list were to be determined. He asked how that list would be determined, by whom, and when it would be made available to the public.

Mr. Chaney said that on the advice of counsel they were directed not to provide an acquisitions list at this time. He said as soon as the City Attorney determined that it was appropriate, they would be making this list available.

Ms. Troll asked if they could at least list the types of needs in the Plan, rather than names of specific parcels.

Mr. Chaney said they could list the types of needs.

Ms. Troll said she felt that would be adding more information as this Plan is presented to the public.

Mr. Kiehl added that he liked Ms. Troll's idea of providing the critical categories of where the staff and the Assembly in the past have identified a need for

acquisitions. At some point the Committee as well as the public need to see that list, said Mr. Kiehl.

Mr. Chaney said that he agreed, and that it is actually part of Title 53 that it has to be part of the Land Management Plan. They would be bringing some form of list forward in the near future, added Mr. Chaney.

MOTION: *by Ms. Troll, to forward the Land Management Plan for public review with the notion that there would be more detail provided on Page 102 of the Plan identifying priority areas for categorical needs.*

The motion passed with no objection.

VI. STAFF REPORTS

Mr. Chaney said he wanted to thank former employee Jessica Beck for her contribution to the Plan effort.

VII. COMMITTEE MEMBER / LIAISON COMMENTS AND QUESTIONS

Planning Commission

Mr. Peters reported that the Title 49 Committee met recently, and that they are working on the zoning for marijuana. That will then be forwarded to the Planning Commission for further discussion, he added.

Docks and Harbors

Mr. Peterson said he wanted to thank Mr. Uchytel and Ms. Tina Larson for the work they did on the Cultural Preservation Lease.

Assembly

Ms. Troll said she wanted to commend the staff on pulling the Land Management Plan update together, that it is a very useful document, and that she looked forward to the input from the public.

Mr. Kiehl said he also wanted to commend the Docks and Harbors staff for their negotiation of the Cultural and Preservation lease.

VIII. ADJOURNMENT

The meeting was adjourned at 5:55 p.m.

DRAFT



Community Development

City & Borough of Juneau • Community Development
 155 S. Seward Street • Juneau, AK 99801
 (907) 586-0715 Phone • (907) 586-4529 Fax

DATE: September 24, 2015

TO: Assembly Lands Committee

FROM: Teri Camery, Senior Planner 
 Community Development Department

SUBJECT: Preliminary Draft Juneau Wetlands Management Plan Update

Introduction and Overview

CDD has received the preliminary draft Juneau Wetlands Management Plan Update from Bosworth Botanical Consulting. This plan, funded entirely through a federal grant, represents the culmination of the wetland assessment field work conducted in the 2014 and 2015 field seasons.

The initial stage of CDD efforts on the update began in 2009. In 2009 the Planning Commission and Assembly re-evaluated CBJ's former goal of developing a wetland mitigation bank to lower wetland mitigation costs within the borough. The Commission and Assembly concluded that an update to the existing Juneau Wetlands Management Plan was a better option. This is because an update to the plan could provide advance planning information on wetlands to identify low-value wetlands and upland areas suitable for development, and also because a mitigation bank did not appear to be a practical option.

Following this determination, CDD staff sought grant funds to support the update. The multi-stage application period for the federal Coastal Impact Assistance Program (CIAP) grants began in 2010. In 2012, CBJ was officially awarded a \$1.6 million Habitat Mapping Grant. The grant provided for new LiDAR (light detection and ranging, which provides detailed topographical data) and imagery, an updated wetland assessment methodology, new stream maps, and the wetlands management plan. This is described in more detail in the Background section of this memo.

The report includes 345 wetland assessments. Of these 345 assessments, approximately 18 assessments are on private land and the remaining 327 assessments are on city land. The plan also includes 48 off-site assessments on private properties where CDD did not obtain permission for on-site assessment. This is explained in greater detail later in this

memo. Each assessment includes detailed wetland maps, LiDAR (topographical data), photographs, and wetland function scores.

The CBJ Lands Division has already been actively using the assessment information for subdivision planning. For example, the Renninger Major Subdivision used the wetland assessment information to determine areas most suitable for development and for wetland mitigation. CBJ Lands is also using the information in the plan for development of the Pederson Hill subdivision. This information has already saved the CBJ Lands Division tens of thousands of dollars. Similarly, the private property assessments in the plan potentially save individual property owners many thousands of dollars by providing assessment information in advance and identifying non-wetland (upland) areas to focus development. This information also shortens permitting time when wetland permits are required.

The JWMP Update is largely constructed from a series of bi-weekly field progress reports and the 2014 Field Season Report required in earlier stages of the project, with added chapters regarding implementation options to inform the Assembly and Planning Commission about how this information may be used to develop a wetland management strategy. The report is preliminary, the earliest stage of public review. CDD staff received the documents on September 16, 2015 and have not yet completed a full evaluation. CDD is not providing recommendations on management strategies or other plan revisions at this time.

The draft plan has two volumes. Volume I includes a description of the project history, wetland methodology, distribution of wetland scores, and implementation options (potential wetland management strategies). Volume II includes detailed scores, maps, and photographs for each of the 345 on-site wetland assessments and 48 off-site assessments. The off-site assessments use only the 2013 LiDAR and imagery acquired in an earlier stage of the federal grant. These assessments were conducted on large vacant private parcels where CBJ could not obtain permission from private property owners to conduct on-the-ground wetland assessments.

Comments and Focus of Review. CDD encourages the Assembly Lands Committee members to focus review and comment on Volume I, which includes a description of project methods, inventory overview, scores and distributions, and implementation (options for wetland management). Volume II is the 453 page document with the scores and maps for each assessment. Staff encourages the Assembly Lands Committee members to focus review and comments on Volume, with a special focus on the implementation section. CDD requests the Assembly Lands Committee comments by October 30, 2015. Staff is available at any time for questions or for follow-up meetings.

Project Timelines. The preliminary draft JWMP is the first and earliest stage of public review on the project. Bosworth Botanical Consulting will give presentations to the Habitat Mapping Working Group (comprised of state and federal resource agencies to provide technical support for the project), Wetlands Review Board, Assembly Lands Committee, and the Planning Commission at public meetings from September 24 through October 13, 2015. Each entity is invited to submit comments by October 30, 2015. CDD will combine these comments with a detailed internal review of the plan, and submit a revision request to the consultant by November 15, 2015.

The next draft of the plan is due from the consultant on February 15, 2016, which will be followed by a second round of presentations to the entities listed above. Revisions from CDD will be due to the consultant on March 15. The final draft is due from the consultant on April 8, 2016. The grant and contract must be closed out by June 2016. CDD expects that additional revisions will be needed before the plan is adopted. These final revisions will be the responsibility of CDD.

Background

The goal of the JWMP Update is to develop a long-range planning document that will assist public land managers and interested private landholders with practical management of their properties. The update identifies wetland areas within designated priority areas and applies the WESPAK-SE wetland assessment method to these areas to produce assessment scores, maps, and supplementary documentation. Priority areas are based on large vacant public and private parcels in areas within the CBJ that are likely to be developed within 20 years.

Identifying and assessing wetlands using a consistent, standard scientific method provides information to public and private developers so they may determine if additional wetland review and delineation is needed when a specific project is proposed. The plan provides wetland maps and wetland scores so land managers/owners have advance information on high scoring wetlands (which may be suitable for mitigation) and low scoring wetlands (which may be suitable for development).

Federal Grant Funding. The project is the largest element of the \$1.6 million Habitat Mapping Project, a 3.5 year project funded through the federal Coastal Impact Assistance Program (CIAP). The Habitat Mapping Project, which began in 2012, also included acquisition of new LiDAR and imagery (completed in 2013), peer-reviewed revision of the WESPAK-SE wetland methodology for adaptation to Southeast Alaska conditions (completed in 2013), and development of new stream maps (under way and scheduled for Lands Committee review at the October meeting).

Original Juneau Wetlands Management Plan. The CBJ has a long history of local involvement in wetland management. In the 1980s the CBJ conducted wetlands studies in the developing area of the Borough, and commissioned wetland evaluation based on the Adamus Wetlands Evaluation Technique (WET method). This resulted in adoption of the 1992 Juneau Wetlands Management Plan, which classified wetlands into five categories (A, B, C, D, and EP, Enhancement Potential) with supporting regulations and extensive appendices and documentation. The plan identified approximately 160 wetland units and provided maps, descriptions, and functional analysis corresponding to each unit. The assessment method applied only to freshwater wetlands, therefore large areas of estuarine wetlands were not evaluated. In the original JWMP, wetlands comprised 54 percent of the study area.

The JWMP has been updated several times since 1992. (The most recent is dated February 2008.) However these revisions changed the text and formatting only to address the requirements of the former Alaska Coastal Management Program. The wetland units, functional assessments, and policies from the 1992 plan remain unchanged. The JWMP maps and analysis are now nearly 23 years old and include a limited area of the Borough that addresses only freshwater wetlands. Though the plan was nationally recognized when it was first completed, it is now outdated and in some cases inaccurate. The JWMP is largely based on analysis of aerial imagery from the late 80s; the plan involved only limited “ground-truthing” on-site, and therefore did not require individual private property owner permission for assessments.

For these reasons, and following Planning Commission and Assembly direction, CDD sought and successfully obtained grant funds to support development of a new plan. At the same time, the new WESPAK-SE assessment method was under scientific revision for Southeast Alaska conditions, and now has strong support from state and federal resource agency professionals. The WESPAK-SE method was developed by Dr. Paul Adamus. An earlier version of this method, WESPUS, has been formally adopted as the required wetland assessment method in the State of Oregon. Dr. Adamus has been the lead scientist providing scientific quality control and evaluation in the current update, building on over 25 years of wetland analysis within CBJ and throughout Southeast Alaska.

Changes in the new plan

The new JWMP Update provides wetland assessments for both freshwater and estuarine wetlands. While the old plan was based primarily on imagery with minimal “ground-truthing,” the new plan has utilized the new 2013 LiDAR and aerial imagery as well as extensive on-site analysis of each wetland area. CDD identified large vacant

parcels along the road system to establish priority areas for the assessment work. CDD then contacted individual property owners within these priority areas—by phone, email, and a mailing—to offer free wetland assessment services conducted by the consultant with grant funding. Four property owners, with approximately 12 parcels total, accepted CDD's offer. For the remaining private properties where CDD did not obtain permission for on-site assessments, the consultant conducted off-site assessments utilizing only the 2013 LiDAR and imagery, with extrapolation for adjacent properties when relevant. Off-site assessments are clearly noted in the plan as having a much lower accuracy rate than on-site assessments.

As noted earlier, the plan includes a total of 345 on-site wetland assessments. (Earlier reports note 360 assessments, but some areas were later combined after further evaluation.) Of these 345 assessments, approximately 18 assessments are on private land and the remaining 327 assessments are on city land. The plan also includes 48 off-site assessments, which are primarily on private properties where CDD did not obtain permission for on-site assessment.

The new plan has not categorized wetlands into high-value and low-value wetlands, nor does it offer wetland policies or regulations for consideration. Understanding that these are policy decisions made by the Planning Commission and Assembly, CDD did not include this requirement in the contract. The JWMP Update Volume I Implementation Chapter outlines different options for wetland management for the Assembly and Planning Commission to consider. As noted earlier, staff has not had sufficient time to review the preliminary draft to offer a recommendation at this stage. However it is clear that even if the Assembly and Planning Commission choose not to develop wetland policies and/or regulation, the advance wetland and topography information acquired with the plan will continue to be very useful for city land management efforts.

As a final note, Bosworth Botanical Consulting has noted several items that are missing in the preliminary draft and will be added in the next draft, which is due in February 2016. These missing items include the following:

Volume I:

1. In section 4.5, tables for on-site non-tidal, showing highest and lowest ranking Assessment Areas (AAs) for various functions.
2. In section 4.6, similar tables for off-site non-tidal (tables are in place, but they haven't been normalized reflecting scores for the West Douglas sites)

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Volume 2:

1. final scores for anadromous fish habitat for approximately a dozen sites, recently determined to be in error (red-highlighted in draft)
2. on-site photos for 4 AAs still to be collected (the draft has pink-box placeholders)
3. score tables for off-site non-tidal AAs

DRAFT

***Juneau Wetland
Management
Plan Update***

Final Report • Volume 1

for:
***Community Development Department,
City and Borough of Juneau, Alaska***

Bosworth Botanical Consulting

with:

Adamus Resource Assessment

Ecological Land Services

Catherine Pohl Biological Consulting

Discovery Southeast

September, 2015

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Cover: View east-southeast over Lawson Creek and Crow Hill to Douglas, September, 2014. We assessed forested and open peatlands in this area.

This contract was funded by the Coastal Impact Assistance Program through the Alaska Dept of Commerce, Community and Economic Development as part of Grant #10-CIAP- 0009, "Habitat Mapping and Analysis Project."



1.0 INTRODUCTION

This document, Volume 1, provides project background and the methods and results of two seasons of wetland mapping and assessment. Volume 1 also presents several potential approaches to using the resulting information in an updated wetland management plan. Rapid assessment scores and maps for each site are found in the accompanying Volume 2.

1.1 Study Purpose

The wetland mapping and assessment project reported here was conceived to provide accurate information about the location and characteristics of wetlands on large and mostly undeveloped parcels in the Juneau area. The information is intended to make land use decisions more objective, science-based, and efficient, providing key information for update of the wetland management plan for the City and Borough of Juneau.

1.2 Scope

The project consists of the following primary tasks, outlined in RFP 14-132 (Juneau Wetlands Management Plan Update):

- Preliminary mapping of wetlands and Assessment Areas (AAs) to plan and guide field efforts.
- Documentation of wetland boundaries via GPS (Global Positional System).
- Post-field processing of GPS data: differential

correction, archiving, export to shapefile.

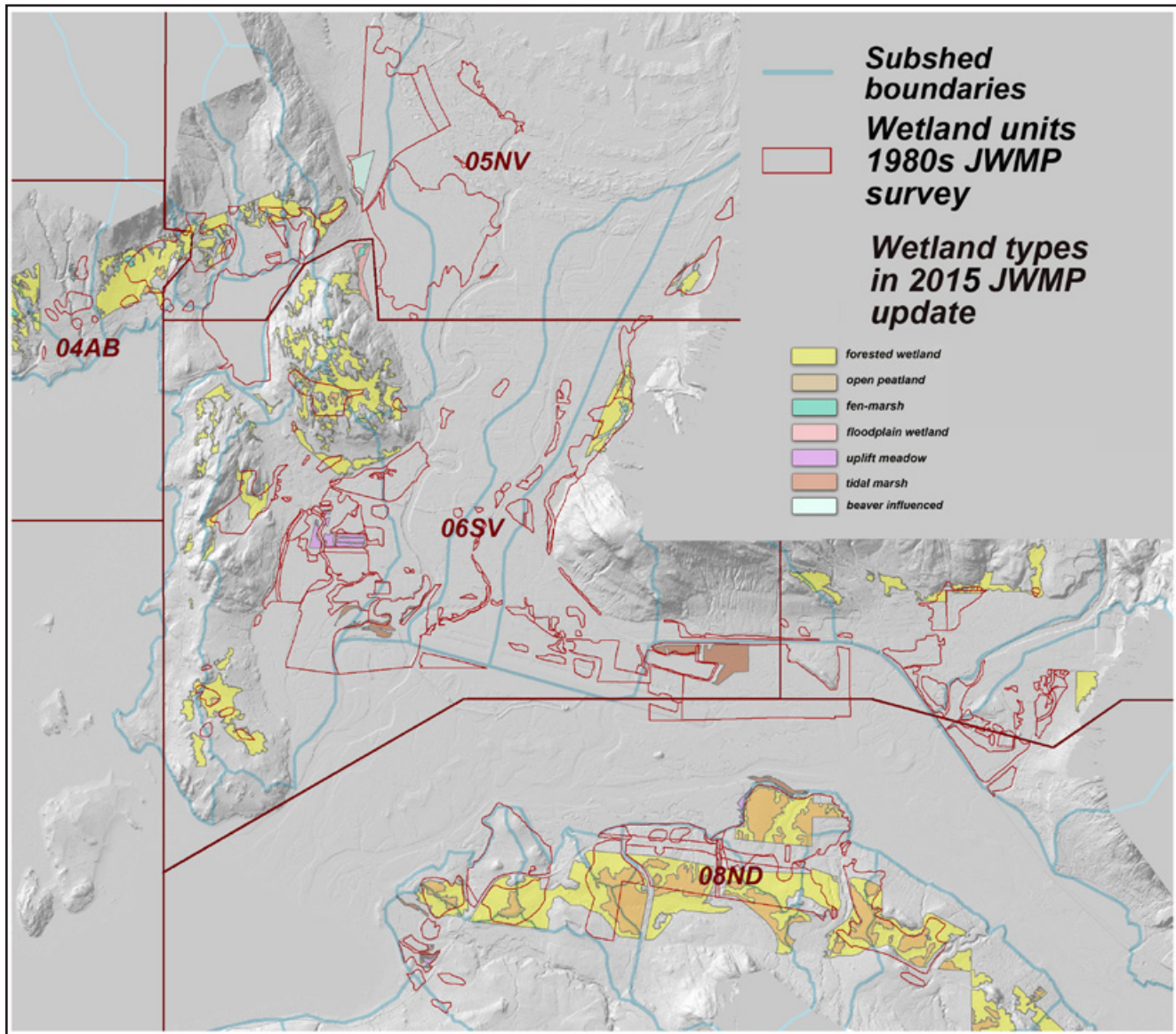
- Wetland boundary mapping in GIS (Geographic Information System) using GPS results.
- Field and office-based assessment of wetland functions and values.
- Calculation of raw and re-scaled wetland assessment scores.
- Reports: Bi-weekly progress reports, draft final report in 2015, including a section on implementation/ planning options, with a final report in 2016.

The mapping and assessment were conducted only in parts of the City-Borough of Juneau designated by the CDD as a priority for this study. The study area, encompassing about 1% of the area of the City-Borough, was conducted within “Priority Areas,” shown on maps throughout this document. Most are on undeveloped public land, but several are privately owned. When CDD staff drew the priority area boundaries, the proportion of those areas containing wetlands was not accurately known. The boundaries included areas that CDD staff believe are likely to be a main focus of wetland permit applications during the next 20 years.

1.3 History

In 1985, the CBJ formed a Wetlands Interagency Advisory Committee, which recommended a study (Adamus Resource Assessment 1987a, b, c) to analyze and prioritize public and private wetlands within the CBJ for development and conservation. In 1992, the

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The 1980s JWMP surveys covered only the extent shown here, Auk Bay to Lemon Ck and North Douglas.

CDD used the results to formulate the Juneau Wetlands Management Plan (JWMP), one of the first of its kind in the United States. The JWMP was adopted in November 1992 and reissued with minor revisions in 1997.

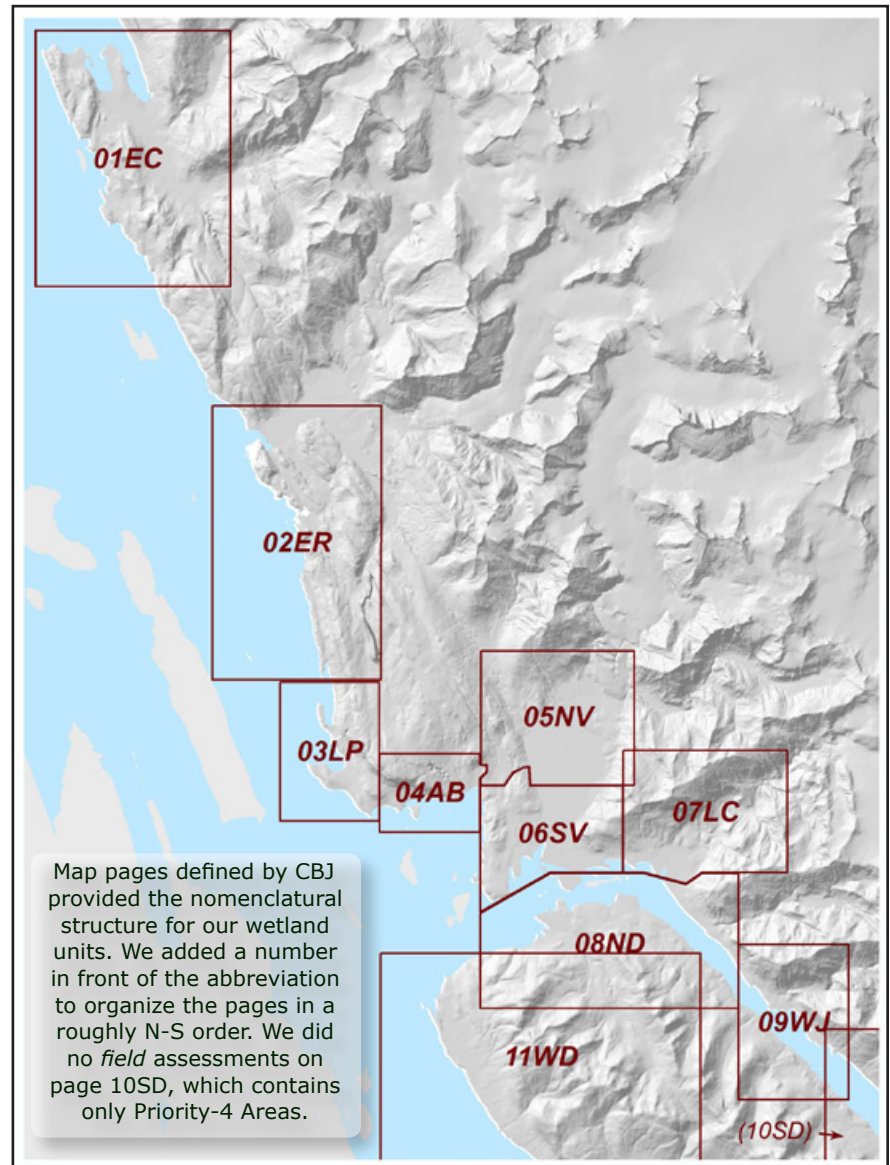
Results of the present study will be used by CBJ to expand the area covered by the JWMP and to update it with more rigorous mapping and assessment methods. The study uses an assessment method developed under a federal grant to the Southeast Alaska Land Trust (Adamus 2012) and later refined (Adamus 2015) through a federal grant to CBJ. The CBJ Wetlands Review Board and the project's Habitat Mapping Working Group (a state and federal agency group advising CDD) have formally approved the WESPAK-SE method for the project.

About 8% of the study area had been assessed in the prior Juneau survey, as shown above. Results from the present study supplant those of the earlier document.

1.4 Project Area

The project area consists of a set of 78 tracts, each assigned one of four levels of priority for mapping and assessment. The majority of the “Priority Areas” (PAs) are lower elevation landscapes with low or moderate slope, but some steep and/or higher elevation sites are also included. They span from Cowee Creek at the northern end of Glacier Highway to southern Douglas Island. Vast and varied lowland wetlands on both sides of the Douglas highway are included, as well as large tracts along Fish Creek, at Eaglecrest, and on west Douglas Island.

In this report, the areas we mapped and assessed are clustered within 10 “map pages.” North to south, these are Echo Cove (01EC), Eagle River (02ER), Lena Point (03LP), Auk Bay (04AB), North Valley (05NV), South Valley (06SV), Lemon Creek (07LC), North Douglas (08ND), West Juneau (09WJ), and West Douglas (11WD). (Areas within CBJ’s map page 10, South Douglas Island, were assigned lower priority for field efforts so were not included in the field surveys). Instead, they were mapped and assessed using a somewhat different, “off-site” method, described below in Section 2.3.4



1.5 Wetland Functions and Values

Rules legally adopted for implementing the Federal Clean Water Act require regulatory agencies to consider a wetland’s *functions* when reaching decisions about whether to grant a permit to a developer and/or whether mitigation needs to be done under Section 404 of the Act. “Functions” are what wetlands can do naturally, such as store water, purify runoff, and provide habitat. Dozens of functions could be described for any given wetland, but some are of unknown or limited importance to society and/or ecological resources, and others are difficult to assess. Therefore, most wetland assessments focus on a limited set of generally-recognized functions that are most relevant in a given region. Those considered to have the greatest potential relevance to Southeast Alaska, and which therefore were assessed in this study and could be used to prioritize Juneau wetlands, are defined in Table 1, below.

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Table 1. Definitions of functions, values, and other attributes scored by this study.

Function or Attribute	Definition	Values
Water Storage & Delay	The effectiveness for storing runoff or delaying the downslope movement of surface water for long or short periods.	Flood control, maintain ecological systems
Stream Flow Support	The effectiveness for contributing water to streams during the driest part of a growing season.	Support fish and other aquatic life
Water Cooling	The effectiveness for maintaining or reducing temperature of downslope waters.	Support coldwater fish and other aquatic life
Water Warming	The effectiveness for increasing the temperature of downslope waters.	Maintain late-season ice-free conditions
Sediment Retention & Stabilization	The effectiveness for intercepting and filtering suspended inorganic sediments thus allowing their deposition, as well as reducing energy of waves and currents, resisting excessive erosion, and stabilizing underlying sediments or soil.	Maintain quality of receiving waters. Protect shoreline structures from erosion.
Phosphorus Retention	The effectiveness for retaining phosphorus for long periods (>1 growing season)	Maintain quality of receiving waters.
Nitrate Removal & Retention	The effectiveness for retaining particulate nitrate and converting soluble nitrate and ammonium to nitrogen gas while generating little or no nitrous oxide (a potent greenhouse gas).	Maintain quality of receiving waters.
Carbon Sequestration	The effectiveness for retaining both incoming particulate and dissolved carbon, and converting carbon dioxide gas to organic matter (particulate or dissolved), and then retaining that organic matter on a net annual basis for long periods while emitting little or no methane (a potent "greenhouse gas").	Reduce risk of global climate warming.
Organic Nutrient Export	The effectiveness for producing and subsequently exporting organic nutrients (mainly carbon & iron), either particulate or dissolved.	Support food chains in receiving waters.
Anadromous Fish Habitat	The capacity to support rearing or spawning habitat of fish species that migrate from marine waters into freshwater streams to spawn, e.g., coho and sockeye salmon.	Support commercial, subsistence, sport, and ecological values. Infuse uplands with marine nutrients.
Resident Fish Habitat	The capacity to support an abundance and diversity of native fish (both resident and visiting species) that are not anadromous, e.g., Dolly Varden, cutthroat trout.	Support commercial, subsistence, sport, and ecological values.
Invertebrate Habitat	The capacity to support or contribute to an abundance or diversity of invertebrate animals which spend all or part of their life cycle underwater or in moist soil. Includes dragonflies, midges, clams, snails, water beetles, shrimp, aquatic worms, and others.	Support salmon and other aquatic life. Maintain regional biodiversity.
Amphibian Habitat	The capacity to support or contribute to an abundance or diversity of native frogs, toads, and salamanders.	Maintain regional biodiversity.
Waterbird Feeding Habitat	The capacity to support or contribute to an abundance or diversity of waterbirds that migrate or winter but do not breed in the region.	Support subsistence, sport, and ecological values. Maintain regional biodiversity.
Waterbird Nesting Habitat	The capacity to support or contribute to an abundance or diversity of waterbirds that nest in the region.	Maintain regional biodiversity.
Songbird, Raptor, & Mammal Habitat	The capacity to support or contribute to an abundance or diversity of native songbird, raptor, and mammal species and functional groups, especially those that are most dependent on wetlands or water.	Maintain regional biodiversity.
Pollinator Habitat	The capacity to support pollinating insects, such as bees, wasps, flies, butterflies, moths, and beetles.	Maintain forest productivity and food chains.
Native Plant Habitat	The capacity to support or contribute to a diversity of native, hydrophytic, vascular plant species, communities, and/or functional groups.	Maintain regional biodiversity and food chains.
Public Use and Recognition	Prior designation of the wetland, by a natural resource or environmental protection agency, as some type of special protected area. Also, the potential and actual use of a wetland for low-intensity outdoor recreation, education, or research.	Commercial and social benefits of recreation. Protection of prior public investments.
Wetland Ecological Condition	The integrity or health of a wetland, as defined operationally by its vegetation composition and richness of native species. More broadly, the similarity of a wetland's structure, composition, and function with that of reference a wetland of the same type and landscape setting, operating within the bounds of natural or historical disturbance regimes.	
Wetland Sensitivity	A wetland's lack of intrinsic resistance and resilience to human and natural stressors (higher score = more sensitive).	
Stress Potential	The degree to which a wetland is, or has recently been altered by or exposed to, risk from factors capable of reducing one or more of its functions and which are primarily human-related.	



Toads were observed here during the first-week calibration session with Paul Adamus. Beaver-dredged channel, tidal unit ND09, Fish Creek Estuary, Douglas Island.

2.0 METHODS

This section summarizes methods used to accomplish this study's three major objectives:

2.1 Mapping Wetland Boundaries

Whenever a developer applies for a permit to alter a wetland, by law a determination must be made regarding the exact location of the boundary between what is wetland and what is non-wetland -- generally areas termed "upland" that are drier, and areas termed "deepwater" that have no emergent vegetation. Formal standardized procedures for making that determination have been adopted by regulatory agencies (US Army Corps of Engineers 1987, 2007).

Areas delineated as wetlands are dominated by vegetation, soil indicators, and hydrologic conditions that differ noticeably and in characteristic ways from those present in adjoining upland areas.

For drawing boundaries of wetlands for the study described in this document, the above criteria and procedures were referenced. Although federal wetland delineation criteria served as a guide for our field mapping of wetland-upland boundaries, we were not required to delineate with the level of formal documentation that regulatory agencies usually require in applications for wetland alteration permits. Doing so over such a large area was not possible within the time and funding constraints of the grant that supported this project. Moreover, formal wetland delineations must be specific to a particular development application

and are considered valid for only a limited time.

Therefore, the teams did not record the presence or percent cover of each indicator plant species at each wetland, nor prepare detailed documentation of soil and hydrologic conditions in each wetland. Rather, team members with prior training and experience in wetland delineation in Southeast Alaska determined the boundary between wetland and upland, much of it while moving rapidly, often through brush and rough terrain in remote forested landscapes distant from roads. Boundaries were documented using sub-meter precision GPS equipment. Although not required to do so, we also recorded stream locations and their characteristics (such as "perennial," "seasonal," "intermittent," or width) where they crossed the wetland boundaries.

Before we visited an assessment area, we used ArcGIS software to draw predicted boundaries, using digital orthophotography and LiDAR products to detect vegetation height, color, and texture, as well as topography and the presence of water. We found the CBJ's recent high resolution (6 inch pixels) four-band aerial imagery and LiDAR-derived digital elevation model extremely helpful for predictive mapping of wetlands. Color-infrared imagery and LiDAR derivatives such as hillshades, 2- and 10-foot elevation contours, and keyed vegetation height (from the LiDAR-derived "normalized vegetation" layer) helped us discover and efficiently target potential wetlands. Tidal extreme and mean high water lines were also helpful, as were other GIS layers (roads, trails, parcel

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boundaries, LiDAR point clouds). We converted the resulting maps to .jpg format for viewing on smart-phones and tablets. We uploaded geo-referenced priority-area and predicted wetland boundaries to GPS units and Android tablets for real-time navigation.

In the field, we documented wetland-upland boundaries using Trimble GeoXH 6000-series receivers with GLONASS and Floodlight technology and the internal, integrated antenna. GPS wetland boundary data collected in the field were downloaded, archived, and post-processed or ‘corrected’ daily using the Trimble Pathfinder Office program’s multiple base station option. We used online data from three base stations for the post-processing, including two in Juneau and one in Whitehorse. The latter was needed to process data from the high-latitude Russian GLONASS satellites that were particularly helpful where thick canopy or steep hillsides limited GPS reception. While actual precision under thick canopy or near steep slopes was rarely sub-meter, reception was consistently adequate for planning-level mapping.

We then exported the corrected GPS files to ESRI ArcGIS shapefiles in the NAD 2011 State Plane projection. We used that to draw the smoothed wetland map units displayed in our bi-weekly progress reports to the CDD and compiled in volume 2 of this document.

2.2 Mapping Wetland Assessment Areas (AAs)

The CDD requested that entire wetlands—areas surrounded on all sides by drier upland or deep water—be divided into multiple wetland assessment areas (AAs) if they were larger than 1 acre and met criteria that will be described below. This was requested partly for logistical reasons because some Juneau wetlands extend for many miles, which potentially reduces the accuracy and utility of scores that might be assigned to the entire wetland.

Although boundaries between wetlands and non-wetlands were GPS’d in the field, the boundaries between adjacent AAs of different wetland types were not, so they were mapped using GIS. Wetland assessment area boundaries could be determined more efficiently using imagery and LiDAR-based products.

Dividing an entire wetland into separate AAs is potentially a subjective process, but an important one because boundary locations can dramatically influence the resulting scores. The CDD specified that guidelines in the WESPAK-SE manual (Adamus 2012) be used as the basis for that splitting, and that no individual AA smaller than 1 acre be mapped or separated

from its contiguous wetland. The study team’s proposal, in an effort to honor those guidelines but also to provide additional detail essential to enhance consistency, stated that AAs would be distinguished as follows:

a. Different wetland type using definitions in Form F of WESPAK-SE.

b. Different wetland system, class, or subclass as mapped by the National Wetlands Inventory using the Cowardin classification.

c. Road crossing or other persistently non-vegetated area.

d. Pre-existing data that show clear differences in one or more functions within a possible wetland, e.g., anadromous fish in one intersecting stream but not another.

e. Convex topography or watershed boundary, e.g., half the precipitation hitting the wetland would flow in one direction and the rest would flow in the opposite direction due to a topographic mound within the wetland.

It was never intended that all the above rules be applied in all cases; rather, only that they be used as a guide. If *all* of the above criteria had been applied to the wetlands in the study area, the number of resulting AAs would likely have exceeded 1000, and visiting and assessing that number would have been impossible within the project’s time and budget. As a more realistic target, the CDD had suggested that 400 AAs within the study area be visited and assessed. This was only an estimate because the AAs had not been mapped prior to this study. Based only on interpretation of aerial imagery (LiDAR and orthophotos provided by the CDD), in the early phases of the project it was estimated that the number of AAs in the study area would come closest to matching the target number if they were delimited only by criteria (a) and (e). Those criteria also best reflect the WESPAK-SE manual’s statement that “*boundaries of the AA should be based mainly on hydrologic connectivity.*”

As relates to criterion (a), the following 7 wetland types were used to delimit separate AAs:

- Tidal Wetland (*td*)
- Forested Peatland (*fw*)
- Open Peatland (*op*)
- Fen/Marsh (*fm*)
- Uplift Meadow (*um*)
- Floodplain Wetland (*fl*)
- Beaver-influenced Wetland (*bi*)

Definitions are found in Table 2 and are illustrated in the WESPAK-SE *Short Guide* (Adamus 2013b) and manual (Adamus 2013), with one exception:

Table 2. Definitions of wetland types used in this survey.

Beaver-influenced Wetland. A need for mapping and assessing that type and using it to define AAs became apparent once field work began. While similar to Fen/Marsh and Floodplain Wetland, it differs in several important ways functionally, and meets the objective of representing a dramatically different hydrologic regime.

It is recognized that considerable variation occurs within these types. For example, Forested Peatland could be split by form (shrub or tree) and/or foliage (deciduous or conifer), and Tidal Wetland could be split into low marsh (inundated daily) vs. high marsh. These distinctions are often important indicators of wetland functions and values, including the contribution of any single AA to the region's biodiversity. However, these and other important indicators of wetland functions and values are, Adamus believes, captured sufficiently by the 126 questions in the WESPAK-SE tool.

Subshed mapping As relates to watersheds (*criterion e*), those can be delimited at many spatial scales. For this study, models of stream networks were created by the Bosworth team and CBJ staff. These were adjusted to an appropriate level of detail and used to delimit the watersheds, which we termed "subsheds." That is, wherever a wetland of a particular type was intersected by a significant watershed divide, the portions of the wetland draining to each stream were delimited as separate AAs despite being contiguous with each other and of the same wetland type. However, where application of this watershed criterion would have resulted in an AA smaller than 1 acre, no splitting was done.

To use for mapping watershed sub-units for delineating AAs on West Douglas, we created a detailed predicted stream map for that area from the CBJ's LiDAR-based digital elevation data. Our stream map was created

Wetland Type	Definition
Forested Peatland fw	Nearly all the AA is moss-covered and/or with peat or muck soils to a depth of at least 4 inches, sometimes greater if not rocky. More tall (>3 ft) woody cover than herbaceous. Trees often hemlock or cedar. Often with skunk cabbage (at least in seasonal channels), blueberries. Little or no open water. Includes shrub fringes of open peatlands and fens. Not in active floodplain.
Open Peatland op	Nearly all the AA is moss-covered. Peat depth usually >16 inches except where bedrock near surface. Tree cover is <5% and cover of tall (>3 ft) shrubs is <30%. Shore pine, Labrador tea, crowberry often occur. Often with small (<25 sq ft) scattered stair-step pools with acidic, stained water. Some examples are flat bogs, floating bogs, and sloping muskeg.
Fen/ Marsh fm	Often with extensive surface water, at least seasonally. Usually with more emergent than tall (>3 ft) woody plant cover. Often sedges, deer cabbage, marsh marigold, horsetail, burreed, pond lily. If ground is moss-covered, the moss often is mostly obscured by sedges or other herbaceous plants. Soils often muck or peat, seldom coarse unless created by excavation. Often beaver-created, or at base of steep slopes, or in depressions or adjoining larger water bodies.
Floodplain Wetland fl	At least once annually, surface water in a channel that flows through or adjoins the AA causes the width of surface water in the AA (perpendicular to the channel) to more than double. The increased width is due mainly to that channel inflow, not to hillslope seepage or runoff. Soils are silt or coarser (little or no organic soil or peat). Vegetation can be woody or herbaceous: often alder, willow, devil's club.
Uplift Meadow um	Within a few miles of tidewater or a glacier, but nontidal, and mostly within 100 miles of Glacier Bay National Park. Little or no persistent surface water except in channels, which may be strongly downcut. Mostly sweetgale and/or herbaceous vegetation, e.g., silverweed, iris, Lyngbye's sedge. Tree cover usually <30%. Peat depth usually <16 inches. Resulted from uplift following isostatic rebound as a glacier receded within recent centuries.
Beaver Influenced bi	Active or recent beaver activity has altered the water regime and vegetation. These wetlands are typically episodic, with periods of flood-induced tree mortality alternating with periods of de-watering and vegetation recovery.
Tidal Wetland td	Inundated by tide at least once annually and dominated by emergent herbaceous or woody plants. The level of surface water fluctuates every ~6 hours on a daily basis in response to tides. Does not include areas of beachgrass (<i>Leymus</i> or <i>Elymus mollis</i> , also called ryegrass) unless they are inundated at that frequency. Does not include areas that are entirely eelgrass or seaweeds.

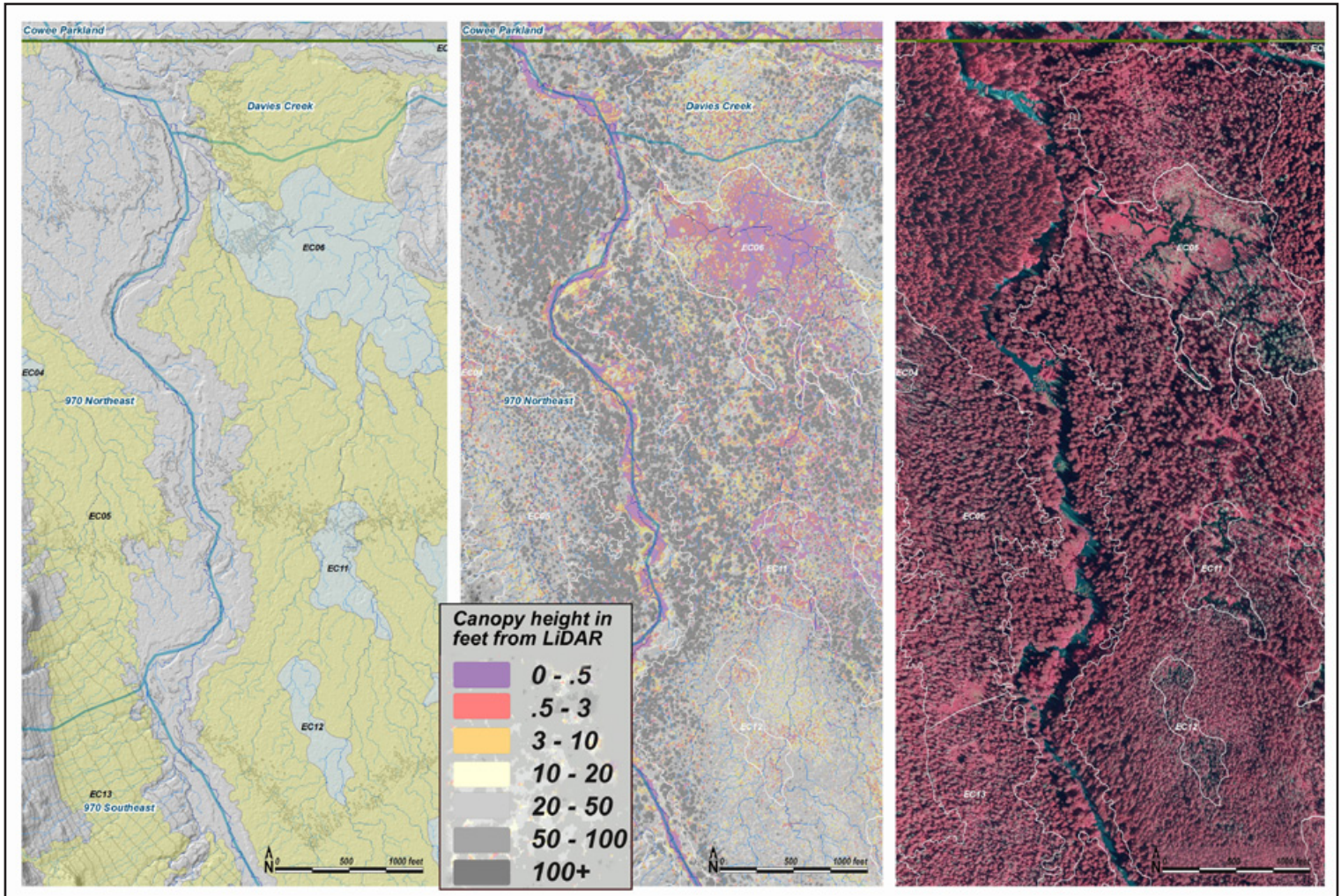
using ESRI ArcMAP Spatial Analyst software and then adjusting the displayed stream order, or level of detail, to match our observations of the smallest streams.

Subshed mapping was done at-need over the course of the 2014 field season. Near the end of that season, we received from CBJ a similar, but borough-wide, streams model that allowed fine-tuning of subshed boundaries. At that time, some of our wetland units were merged (subsumed) and others split along basin divides. For more information on our process and criteria, see our report entitled *subshedmapping.pdf*. (Bosworth, Carstensen & Pohl, 2014b)

2.3 Assessing Wetland Functions and Values

WESPAK-SE (Wetland Ecosystem Services Protocol for Alaska - Southeast) is a standardized tool for assessing a wetland's functions and values, and a few other attributes. It consists of data forms and a spreadsheet with cell formulas that compute a score for each function, value, or other attribute on a scale of 0 (lowest) to 10 (highest). The version used for this project does not combine these into a single overall score for an AA, but provides a foundation for doing so separately if desired.

Although many standardized tools are available for assessing wetland functions, the CDD selected WESPAK-SE mainly because it is the only rapid tool customized specifically for Southeast Alaska wetlands and it had previously been tested and reviewed in Juneau as well as elsewhere throughout the region. Additionally, dozens of consultants and agency personnel have been trained in its use.



Example of a map-collage for Cowee Creek valley. These composites were prepared on a daily basis for field use by our wetland assessors and boundary mappers, uploaded to tablets and smartphones. • **Left:** Hillshade with modeled streams and 10-foot contours—both generated from LiDAR-based DEM (digital elevation model). • **Center:** Normalized Vegetation, or height of trees, shrubs and herbaceous vegetation above “bare earth.” This is one of many LiDAR derivatives, colored here by height class, in this case corresponding to thresholds on WESPAK field and office form questions. • **Right:** Color infrared output from the 6-inch pixel orthophotography. Wetland unit outlines shown here are actually the final, surveyed boundaries. Prior to those visits, we used the pre-field predicted outlines, shown in our May 6, 2014 report, titled *2014 Field Plan* (Bosworth, Carstensen & Pohl, 2014a). Preloading this predicted unit outlines into our Trimble and other GPS devices ensured that a surveyor would get into all of the places we anticipated wetlands might occur.

It is important to understand that WESPAK-SE does not measure wetland functions and values directly. Rather, it uses rapidly observable “indicators” to build a case for the relative level of a given function that may exist in a specific wetland AA (“relative” meaning relative to other wetlands in the study area). Indicators are used because direct measurement of most wetland functions would be extremely expensive and require years of data.

WESPAK-SE calculates the wetland Value scores independently of scores for wetland Functions. For example, a wetland AA may have low function but if that function is scarce among local wetlands, WESPAK-SE will likely assign a moderate or high as

the Value score. Or a wetland may have a high level of function but because of the wetland’s location in the landscape the function may have limited value to people and ecosystems, so WESPAK-SE may assign it low Value score in that context. Other features of WESPAK-SE, including its strengths and limitations, detailed accounts of its models, and descriptions of how it computes scores, are presented in the WESPAK-SE manual (Adamus 2012).

WESPAK-SE has a field component and an office component. Completing both is essential in order for the tool to generate scores for Function and Value. The team’s implementation of these components is described below.



Pohl, Allison and Bosworth *en route* to wetlands high on 'Hill 970' between Bridget Cove and Cowee Creek.

2.3.1 Field Component

The field team was comprised of Koren Bosworth, Andrew Allison, Rachel Allison, Catherine Pohl, and Richard Carstensen. All had previously attended WESPAK-SE training or were coached initially by team members who had. In addition, during the first week in the field, Dr. Paul Adamus (the author of WESPAK-SE) accompanied the team and reviewed the procedure for answering some of the more difficult questions on the data forms. He prepared an “interpretations” sheet for all team members which clarified and further standardized the use of some terms. This also was shared with the CDD. At intervals during the field season, he answered questions and reviewed data to help ensure consistency among team members’ use of WESPAK-SE.

The orthophotos and derivatives of the LiDAR products provided by CDD helped with navigating to the AAs in the field, locating features within each AA to assess, finding inflow and outflow channels, and estimating gradients. Field data were collected by up to four or five team members, often in two teams. The field portion of the WESPAK-SE assessment typically required less than a couple of hours to complete during a single visit, while recording wetland-upland boundaries with GPS required from one to several days depending on size, remoteness, and character of the wetland area. Typically, one team member did a set of assessments and took photos of the AA while the other found and documented the wetland boundary with GPS. In the very large priority areas visited later in the first season, we obtained third Trimble XH unit so that three people could simultaneously document the extensive boundaries. Team membership and roles

varied throughout the field season, which ran from May 8 to mid-October during 2014. A few remaining assessments were completed in June, 2015.

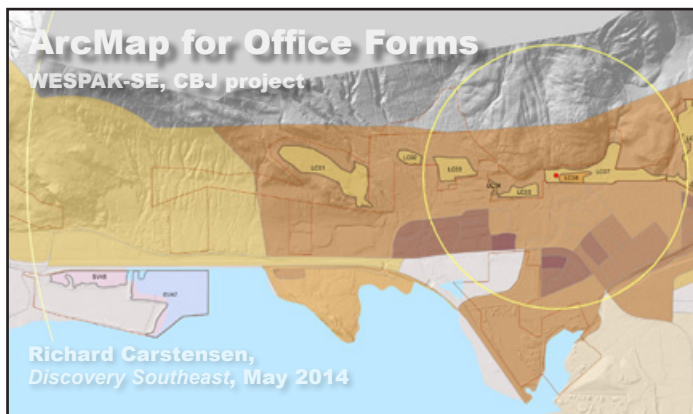
The accuracy of responses to some questions contained in the WESPAK-SE tool likely varied across the seasonal timespan of the survey. For example, some plant and bird species can be detected during only parts of the survey season.

Some AAs contain corridors or “islands” of drier land that would not be defined legally as wetland, and some AAs contain water-filled channels or ponds that lack wetland vegetation in their deeper parts. These are commonly termed “inclusions.” We mapped any of these larger than 1 acre. If smaller, they were not mapped but their presence was documented in our notes if estimated to be larger than 1200 square feet. In the case of tidal wetlands, AAs did not include unvegetated subtidal waters except for narrow channels where those intersected the wetland.

The orthophotos and LiDAR provided by CDD were helpful in ensuring accurate estimation of several indicators of wetland functions. These images and data layers were reviewed before completing each AA’s WESPAK-SE data forms. In particular, they were a great help for measuring wetland and stream gradient; locating small streams, beaver dams, and topographic indicators of groundwater discharge; and measuring tree heights and percentages of conifer vs. deciduous vegetation and tree vs. shrub cover.

Before leaving a given wetland, team members were unaware how WESPAK-SE would score it. Scores were generated only after the collected data had been entered from hard-copy field sheets and quality-checked. A batch-processing version of the WESPAK-SE spreadsheet calculated the scores simultaneously for all AAs after the field season ended.

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Custom GIS prepared to support wetland assessments within the CBJ, available on request.

This formula was applied using the range of raw scores for *each* wetland function and each wetland value among the 330 non-tidal AAs and then separately for the 15 tidal AAs.

After scores were computed and normalized, a descriptor (Lower, Moderate, Higher) was placed next to each score. For a given function or value, natural breaks in the statistical distribution of scores among all wetlands were used to determine whether to characterize a score as Lower, Moderate, or Higher. Natural breaks were identified using a popular statistical procedure called Jenks Optimization. Using iterative calculations with gradual adjustments in group membership, the method minimizes variance within groups while maximizing the variance between groups.

2.3.2 Office Component

The WESPAK-SE office forms were completed by Richard Carstensen and Koren Bosworth. This component normally requires a WESPAK-SE user to access and obtain many types of data from an internet portal assembled specifically for WESPAK-SE by the University of Alaska Southeast (<http://seakgis.alaska.edu/flex/wetlands/>). However, when large numbers of wetlands need to be assessed, efficiencies can be gained by using desktop GIS software to query the same or similar spatial data layers—as was done for this study. A set of improved and additional GIS layers tailored to the needs of this project was created by Richard Carstensen, along with a guide to its use (Bosworth, Carstensen & Pohl, 2014c).

2.3.3 Normalizing the Scores

Although each of the models WESPAK-SE uses to assign scores has a *theoretical* minimum score of 0 and a maximum of 10, in practice when WESPAK-SE is applied to a large number of wetlands the *actual* range for any given function, value, or other attribute is usually narrower. Depending on the function or value, the resulting range of the raw scores found among all sites may be broad (e.g., 1 to 9) or narrow (e.g., 3 to 8). After all field data had been collected and raw scores calculated, the raw scores were converted mathematically to a common 0 to 10 scale for ease of interpretation and rough comparison. This is termed “normalizing.” The normalizing of scores for a given wetland AA was done by comparing its raw scores with the range of scores determined for all of the assessed AAs. To do this, the formula used widely by social science researchers for this purpose was employed:

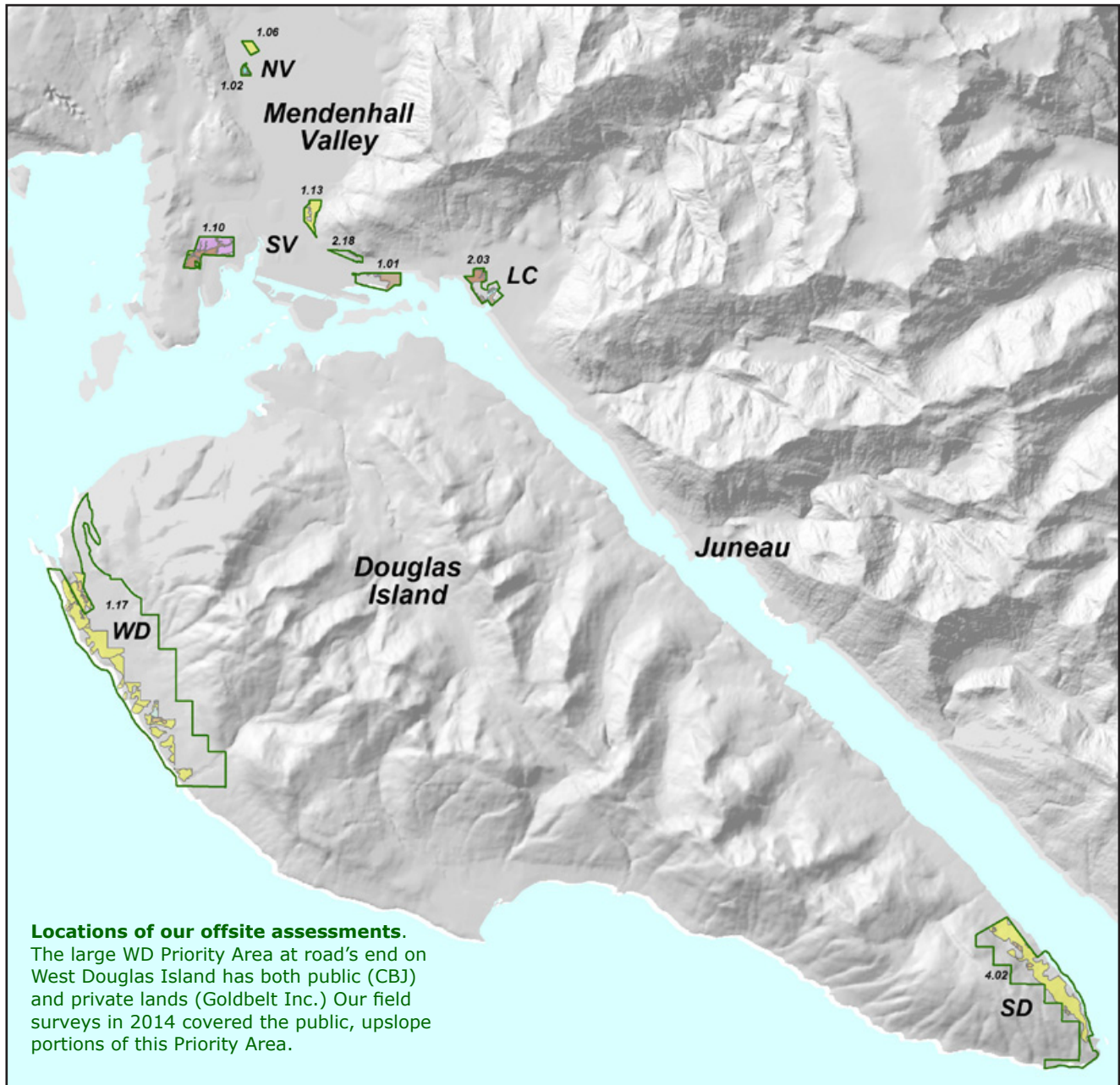
$$\frac{(\text{raw score from "wetland x"} - \text{minimum score from all wetlands in study area}) \times 10}{\text{maximum score from all wetlands in study area} - \text{minimum score from all wetlands in study area}}$$

2.3.4 Off-site Assessments

A number of the parcels chosen by the CDD for potential mapping and assessment in this project. Several of these landowners chose to allow the CDD to survey on-site, others chose not to allow the study team on their property. The CDD asked the study team map and assess 12 of these private parcels “off-site.” One other CBJ parcel on south Douglas Island (SD) that was difficult to access was also done off-site.

As with mapping of onsite AA’s, the CBJ’s 2013 high-resolution aerial imagery and LiDAR-derived digital elevation model and associated products were very useful in determining the wetland boundaries for the off-site areas, especially with open peatlands, fen/marshes, uplift meadows and tidal wetlands. Although mapping forested wetlands was more challenging, it was helpful to have just finished 6 months of on-the-ground surveying in very similar wetland areas. Further, many of the wetlands previously mapped on-site adjoined the off-site areas, and those wetlands came near or overlapped the parcel boundaries.

Wetlands were further divided, if necessary, into assessment areas (AA’s) using the same two criteria as the on-site wetlands—wetland type and subshed. The office form component of the assessment was no different or difficult than for the on-site but there were aspects of the field form component that were more difficult off-site. However, by referring to the combination of



“normalized vegetation,” high-resolution stream maps, hillshade, fine contours and color infrared orthophotography, most of the field form questions could be answered, albeit with less confidence than when we were able to visit the wetland.

The raw scores of wetlands assessed only from off site were normalized not by comparison with all assessed Juneau wetlands, but rather by comparison with just the other wetlands assessed off site.

Table 3. Off-site units and acreages by wetland type. We assessed 48 AAs totaling 887 acres. As with on-site surveys (Table 4, following), forested peatland comprised approximately 3/4 of wetlands by acreage.

type	AAs	%AAs	acres	%acres
forested peatland	23	48%	657	74%
open peatland	10	21%	28	3%
uplift meadow	5	10%	74	8%
fen/marsh	1	2%	5	1%
tidal	7	15%	112	13%
floodplain	0	0%	0	0%
beaver influenced	2	4%	11	1%
total	48		887	

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Our numbering convention for off-site AAs uses the same map page abbreviation as on-site AA's but "*of*" is appended—eg. *SD01of*.

2.3.5 Quality Assurance

Several procedures were undertaken by Dr. Adamus and others to help ensure the quality of the collected WESPAK-SE data. During the first week of the field season he accompanied the entire team in visiting and assessing the first several AAs. In each case, after individual team members had filled out data forms on their own, he explained how he had answered each question. Where differences were apparent, he corrected team members. During the course of the field season he repeated that process during two subsequent visits to Juneau, but did the quality checks on a one-on-one basis with each team member. In addition, while absent from Juneau he responded by phone or email to occasional requests from team members for clarification of specific questions.

Repeatability of Results

The repeatability of WESPAK-SE scores among independent users visiting the same wetlands had been tested previously (in 2013) with generally good results (mean error of + or - 0.86 on a scale of 0 to 10). We conducted repeatability testing again at the start of this field season, after everyone had spent a few days assessing AAs together and discussing answers to the questions. The results demonstrated a higher overall level of consistency among members of our teams than was measured among 6 other trained users who were tested in 2013.

Two team members, Richard Carstensen and Koren Bosworth, completed all of the office-based portions of the wetland assessments. They used ESRI ArcMap desktop GIS software along with locally tailored

and enhanced data layers prepared by Carstensen for the project area. To check the accuracy of the "office form" portion of the wetland assessment protocol, Dr. Adamus independently completed WESPAK-SE office assessments for 4 AAs using similar data layers via the University Alaska Southeast online WESPAK-SE wetlands portal and GoogleEarth. He found no instances of disagreement with the answers determined by Carstensen.

Data Entry

As WESPAK-SE field assessments were completed, two office staff at ELS double-entered the data into the standard spreadsheet. That is, they entered data from the same hard-copy field form independently. Data entry proved highly accurate so the double entry was discontinued mid-season. An Excel script written by Adamus automatically flagged entries that were discordant between the two data entry people. The hard-copy data form was then referred to in order to resolve the discord. To identify errors of omission, Adamus counted the responses to each WESPAK-SE, and if the number was less than 345, the person who did the assessment filled in the missing data by referring to field notes, orthophotos, and ground-level photos.

Data Consistency

Function	CI function 2014	CI function 2013	CI value 2014	CI value 2013
Amphibian Habitat (AM)	0.16	0.17	0.28	0.27
Carbon Sequestration (CS)	0.45	0.26		
Anadromous Fish Habitat (FA)	0.15	0.18	0.24	0.34
Resident & Other Fish Habitat (FR)	0.12	0.35	0.24	0.43
Aquatic Invertebrate Habitat (INV)	0.90	0.59	0.13	0.00
Nitrate Removal & Retention (NR)	1.00	1.02	0.80	0.44
Organic Nutrient Export (OE)	0.94	1.08		
Native Plant Habitat (PH)	0.41	0.21	0.14	0.54
Pollinator Habitat (POL)	0.81	0.53	0.00	0.54
Phosphorus Retention (PR)	0.94	1.07	1.16	0.59
Songbird, Raptor, & Mammal Habitat (SBM)	0.77	0.57	0.02	1.16
Stream Flow Support (SFS)	1.58	1.35	0.37	0.99
Sediment Retention (SR)	0.74	1.38	0.81	0.21
Waterbird Feeding Habitat (WBF)	0.59	0.75	0.88	0.74
Waterbird Nesting Habitat (WBN)	0.95	0.57	1.54	0.63
Streamwater Cooling (WC)	1.24	0.80	0.98	0.84
Surface Water Storage (WS)	1.49	1.56	0.08	0.00
Streamwater Warming (WW)	1.56	3.03	0.95	0.68
Wetland Ecological Condition			0.08	0.73
Public Use & Recognition (PU)			0.31	0.64
Wetland Sensitivity			0.63	0.36
Stress Potential			0.24	0.34
AVERAGE:	0.82	0.86	0.49	0.52

Repeatability of WESPAK-SE function and value scores among users in 2013 and 2014.

Lower CI (statistical confidence interval) numbers indicate greater consistency among the users. Results are based on assessments of 6 wetlands by 3-5 team members early in the 2014 field season, and assessments of 5 wetlands by 6 trained users in 2013. Comparisons are approximate because wetlands where testing was done were different in 2014 from those used in 2013.

Several questions include instructions to skip to a following series of questions. In some cases the intervening questions were answered when they were not needed. The additional data has no consequences in terms of resulting scores because the WESPAK-SE models (spreadsheet formulas) were written to overlook such question-specific superfluous data. Nonetheless, for the sake of consistency, these additional answers have been deleted from the final data set.

Another way of detecting possible misinterpretations or data entry errors is to identify and scrutinize “outliers”. For example, if a particular question has 5 possible choices and the field teams selected the fifth choice in only 2 of 330 wetlands, it could mean that either an exceptional condition was truly present in those two wetlands, or that the question was misinterpreted. In that case, the person who completed the data form is asked to recall their visit to the wetland, possibly viewing photos taken during the visit, and consider whether the answer they marked was what they intended to mark.

A third way to detect possible misinterpretations or data entry errors is to identify sites where the combined responses to multiple questions do not make sense. There may be good reasons why they were answered in that manner, but at the very least these seeming incongruities need to be identified and reconsidered carefully. The person who completed the data form is asked to recall their visit to the wetland, possibly viewing photos taken during the visit, and consider whether the answer they marked was what they intended to mark. The following are *potential* incongruities in responses to WESPAK-SE questions:

- Percent of the AA that is Saturated-only (F2) plus Persistently (F3) plus Seasonal-only (F7), or some combination of 2 of these, exceeds 100%.
- Reported occurrence of Throughflow (F28) in a wetland that has no surface water Outlet (F29).
- Reported occurrence of Inflow (F25) but no flowing water in wetland (F24) and/or no Outflow (F29).
- Moss Extent (F43) is great but Soil Texture (F47) is not Organic.
- Woody Cover Extent (F32) is less than Tree Canopy Extent (F33).
- Deciduous Tree Cover (F34) is reported to exceed the Total Tree Cover (F33).
- Percent Woody Cover (F32) plus Percent Herbaceous Cover (F50), as seen from “bird’s eye view”, exceed 100%.
- In the Woody-Herbaceous Interspersion

question (F40), the percent of either Woody or Herbaceous is reported to be 30-70% but the answers to F32 and F50 indicate Woody is greater than 75% or less than 25%, and Herbaceous is greater than 95% or less than 25%.

Clarifications and Interpretations Provided for WESPAK-SE: Field Questions

It became apparent during the first week of data collection, and to a lesser degree as the season progressed, that clarification was needed of the WESPAK-SE author’s intent with regard to definitions or other aspects of a handful of the 126 questions in WESPAK-SE version 1.4. Definitions on the WESPAK-SE data forms were found to be unclear when our team encountered situations that had not been encountered or recognized during the author’s field testing of WESPAK-SE in 2011-2013. When requested by the field teams, Paul Adamus provided these clarifications and interpretations and communicated them with all team members in order to help maintain consistency among the assessments. The field form interpretations and clarifications are noted here.

Non-tidal Wetlands

Definitions of wetland types that comprise the choices for the first question of the non-tidal field form (F1) were clarified and refined as follows:

- “Forested Peatland” was clarified to include *muck* (either mineral or organic muck) as well as peat soil.
- “Uplift Meadow” was refined as *“usually less than 30% tree canopy cover.”*
- “Open Peatland” was clarified as having *less than 5% cover of trees* (in addition to already specifying less than 30% cover of woody plants over 3 feet tall).
- The definition of “Fen/marsh” was clarified similarly.
- “Fen/marsh” was described with additional examples of regionally common emergent plant species (*marsh marigold*) and settings (*often beaver-created, or adjoining larger water bodies.*)
- The Floodplain Wetland type was further defined hydrologically,

“At least once annually, surface water in a channel that flows through or adjoins the AA causes the width of surface water in the AA (perpendicular to the channel) to more than double. The increased width is due mainly to that channel inflow, not to hillslope seepage or runoff.”

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and with an additional requirement to use field indicators for a final determination.

Several clarifications were also made to other WESPAK non-tidal field form questions to assure consistent and intended interpretation.

- For question F9, we included *loose muck* as part of the water depth. In question F12, the flat shoreline extent is expressed as *percent of shoreline length*.

- In question F21, the color of water is more specifically described as *tea-stained*.

- Inflow, in question F25, was clarified to mean surface water *that at least once annually, flows from a stream or ditch longer than 300 ft (before it reaches the AA) or in a pipe or hardened conduit, directly or as overbank floodwater*.

- The flow complexity choice in question F28 is to be selected for *most* of the flowing water or the choice producing the *greatest friction*, rather than the first applicable description.

- For question 31, we were to disregard part b, concerning flow into a soil pit.

- Question F43, Moss Extent, refers to the percent of the vegetated ground cover comprised of peat-forming moss (excluding moss on trees or rocks).

- Upland inclusions, F46, can be mounds of any type of upland soil. Invasive species (F54) can be woody or herbaceous.

- Shorebird feeding habitat, question F48, is further defined as non-acidic water shallower than 4 inches.

- In question F54, the slope from disturbed lands is to be considered uphill of the unit, or adjoining it if there are none.

- For F55 (Weed Source), the upland edge can be in any direction, not just uphill.

- For question 63, non-consumptive uses, “walking” refers to walking access *for an average person*. Interpretive centers, trails with signs or brochures, or regular guided tours apply only if *within .25 mile* of the AA and if they interpret the natural features of the AA or associated lands.

- *All hunting* is to be included (question F68) with *waterfowl hunting*; *known berry picking areas* are to be included with *harvesting of native plants*.

Tidal Wetlands

The definition of Tidal Wetland includes tidal freshwater as well as saline areas. “Dominated by emergent herbaceous or woody plants” was interpreted simply as “*dominated by vascular plant cover (excluding submerged aquatics)*” and the criterion “level of

surface water fluctuates every ~6 hours” was interpreted to mean *only when surface water is present*, which may be as little as once annually.

“*Driftwood*” (Tidal Form question 12) refers to largely horizontal logs on the ground near the high water line. “*Large woody debris*” refers to wood such as root masses carried into the unit by currents or fallen from adjacent uplands.

Stressor Form

On question 2 of the wetland stressor form, we were to add “*or a partial blockage of flow out of the AA*” to row 6 and were to read question S3, Drier Water Regime—Internal Causes row 6 as “*placement of fill within the AA.*” To answer S6 and S7 for tidal wetlands, we were to focus on *tributaries and uplands*, including *tidewater sources* only when there is strong evidence.

Office Questions

A separate document prepared by R. Carstensen describes the GIS procedures and associated interpretations used in answering the questions on the WESPAK-SE office data form.



Kaxdigoowu Héen, clearing water as you move upstream (Montana Creek). Floodplain wetlands with skunk cabbage under tall, 2-century-old spruce are common along the more active Juneau streams.



In some places, ORV trails extended far into the back country. These tracks circle a lily pond at 465 feet on the ridge dividing Montana from McGinnis Creek watersheds.

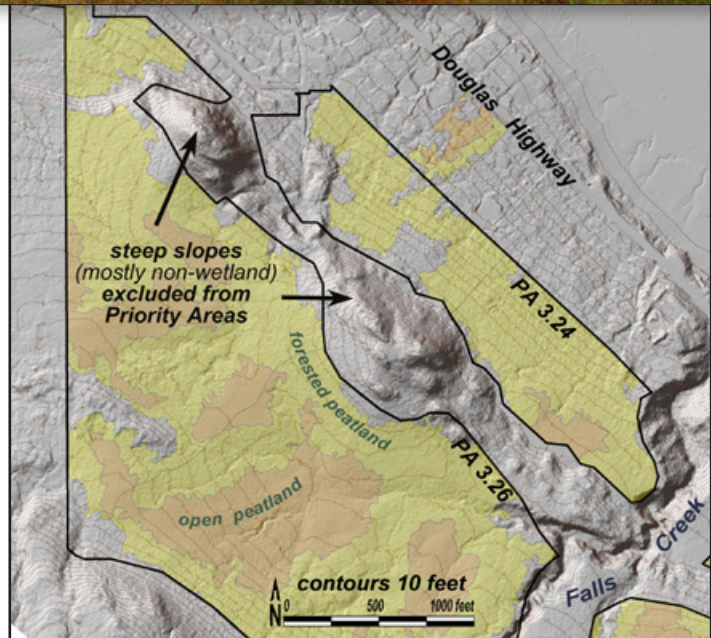
3.0 INVENTORY OVERVIEW

3.1 Acreages, Wetland Distributions

During the 2014 and 2015 field seasons, our team mapped 94 distinct (contiguous) wetlands within 60 Priority Areas (PAs), dividing these into 345 units and covering 5204 acres. Within these, we assessed the functions of 13 tidal and 332 non-tidal wetland assessment areas. The Priority Areas we surveyed were ranked as follows: 13 of 21 Priority I; 23 of 27 Priority II, and 24 of 27 Priority III. Two AAs surveyed on request from private owners were located outside of any PA.

Priority areas *not* covered in the wetland surveys included 15 priority I, II, & III private parcels (8 priority I; 4 priority II; 3 priority III); the private-land portions of 3 priority I areas, including a large area on the west side of Douglas Island; and the 3 priority IV areas.

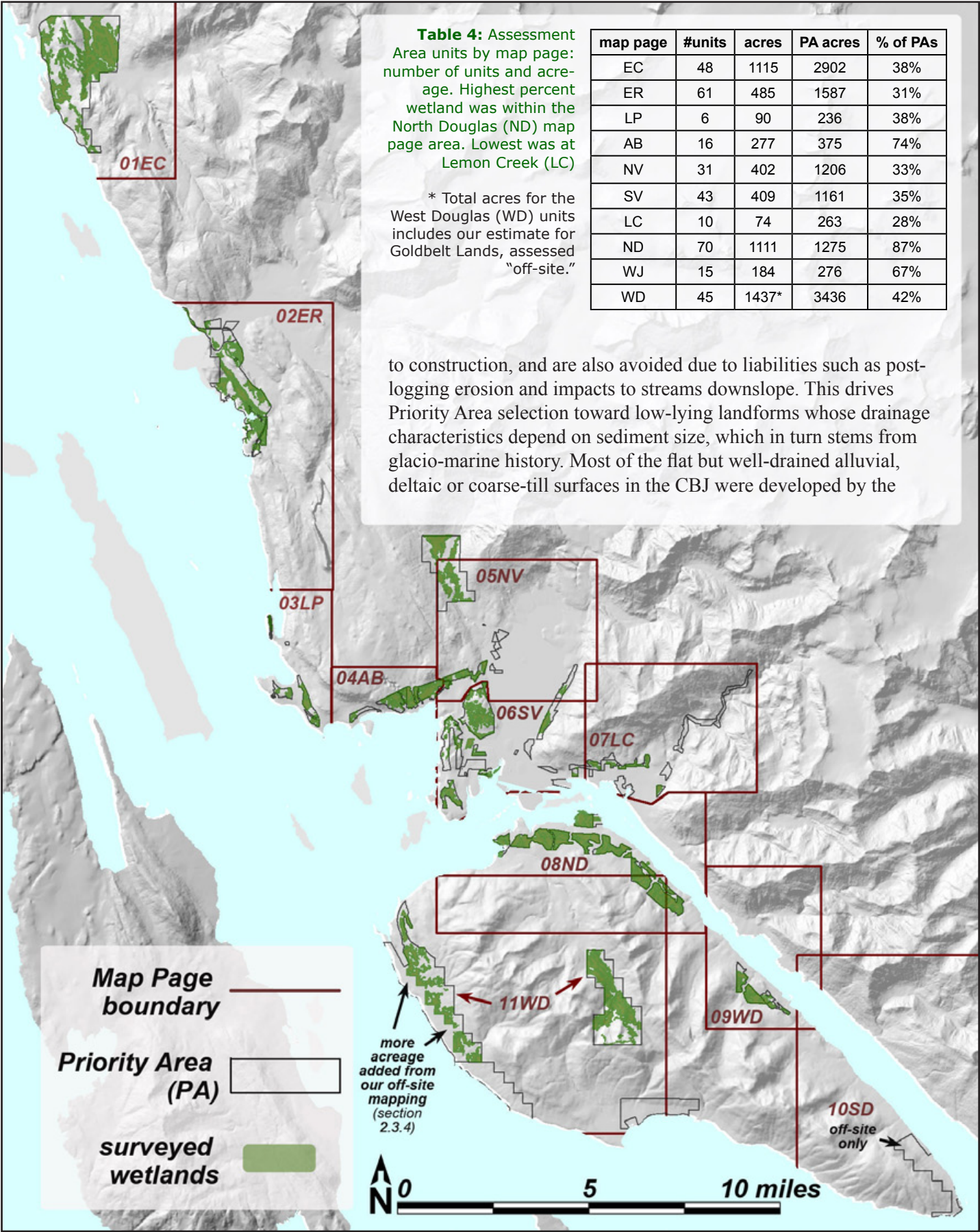
Wetlands mapped by our team totaled 5584 acres, or 44% of the 12,717 acres of Priority Areas that we surveyed. As shown in Table 4, they were not equitably distributed among Map Pages nor within Priority Areas. The most extensive wetlands occurred on level, poorly drained marine terraces, notably the raised



A typical pattern in landscape-position of Priority Areas. While steep slopes are avoided, these better-drained landforms actually support some of the only non-wetland habitats on otherwise low-gradient raised-marine surfaces.

benches of North Douglas (87%), West Juneau (67%) and West Douglas. To give a more realistic percentage for those ancient marine landforms on West Douglas, we added the estimated acres from our offsite assessments on private lands seaward of CBJ property. Because this side of the island was more wave exposed at time of deposition (~9000 to 12,000 yrs ago), sediments are coarser, and wetlands fewer, with much less open peatland.

Underlying these patterns in wetland distribution are the geographic constraints governing Priority Areas the City asked us to investigate. Steep slopes pose challenges



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Table 5: Assessment Areas (AAs) by wetland type: # units & acreage. Forested peatland comprised more than 3/4 of our wetlands by area. **fw** = forested peatland. **op** = open peatland. **um** = uplift meadow. **fm** = fen/marsh. **td** = tidal wetland. **fl** = floodplain wetland. **bi** = beaver influenced.

type	#AAs	%total	acres	%acres
fw	160	46%	3961	76%
op	104	30%	773	15%
um	23	7%	182	3%
fm	24	7%	63	1%
td	13	4%	58	1%
fl	8	2%	48	1%
bi	13	4%	118	2%
	345		5204	

1970s. Remaining flat or gently rolling terrain is generally blanketed by marine fines, raised above sea level millennia ago. Builders locally refer to these sediments as “blue clay,” and while they typically have more silt than clay-sized particles, they generally support open or forested wetlands.

Least wetland cover (28%) was found on Priority Areas within the Lemon Creek (LC) Map Page. Considerable portions of these units occupy fairly well-drained toeslope (colluvial) positions.

Table 5 shows acreages and percentages by wetland type. Forested peatlands (*fw*) comprise the large majority (76% by acreage) of wetlands within our Priority Areas. Many of the forested wetlands had small, well-dispersed hemlocks with large gaps between tree crowns, resulting in brushy understories over an herbaceous layer dominated by skunk cabbage. Wetlands with skunk cabbage were also present, however, in larger closed-canopy hemlock forest, often on moderate slopes, and in large-tree riparian spruce forest.

Second most common (15%) are open peatlands (*op*), typically with very deep, saturated sphagnum or sedge/sphagnum peat. These ranged from recently uplifted tidelands (*eg* Amalga) to ancient peatlands. They varied from nearly flat sphagnum-dominated bogs to sloping spike rush-dominated, pond-studded fens with orchids—often wildlife hotspots.

The remaining 5 wetland types are relatively rare, collectively constituting only 8% of our total by acreage, and 24% by number of mapped units. Such low percentages do not mean these wetland types are ecologically insignificant. Beaver wetlands (*bi*) support probably our richest fish and wildlife traffic. Uplift meadows (*um*) are Juneau’s most globally unique habitats, on our most heavily developed landform. Tidal wetland (*td*) are uncommon in our



Unit ND25 in Neilson Creek subshed on Douglas Island, August 11, 2014. Deep-peat sphagnum bog (*op*) with abundant ponds and small, dispersed pines. A territorial greater yellowlegs circled defensively and called while we surveyed here.



Andrew Allison with yellow-cedars at 670 feet on the outer (western) slopes of Hill 970. These are the largest and probably oldest cedars so far discovered in the Juneau area.

surveys only because few of our assigned Priority Areas overlapped tidelands.

If the AA boundaries based upon differing wetland type or subshed (*ie* hydrologic divide) were dissolved, the total number of discrete wetlands assessed drops from 345 to 94.

The distribution of WESPAK-SE scores among all 332 non-tidal AAs is graphed in Section 4 by *function*. Those graphs are followed by similar ones showing the scores for wetland *values* and other attributes.

3.2 Study Highlights

The most scientifically significant finding was perhaps the sheer extent of forested wetlands. Previous inventories based on aerial photography mapped only a small portion of the cryptic and surprisingly extensive forested wetlands in our project area. Also of note were the presence of well-developed wetlands on steep slopes and at high elevation, and the abundance of wet and transitional shrublands in some areas.

Juneau's surveyed wetlands, unlike those of other parts of the United States, are dominated by native vegetation. Sloping sedge peatlands hosted a particularly variable and diverse flora, including orchids and crab-apples, and were typically threaded with stepped ponds and hosted a variety of migratory songbirds. Sign of bear, wolf—and in the Cowee watershed, moose—were found in these areas.. An impressive variety of edible berry plants were abundant and productive in many of the open sphagnum-sedge peatlands and adjacent shrublands.

Forested wetlands were dominated, as expected, by smaller western hemlock, but skunk-cabbage-laced wetlands were also found in large-tree riparian spruce, hillside spruce-hemlock, and post-disturbance red alder forest, and with a diversity of structural and shrub understory conditions. As expected, shorepine was abundant in lower elevation open or thinly forested peatlands, with mountain hemlock becoming more abundant at higher elevation. One cedar wetland—EC18—was found in the study area. The



Floral diversity in EC47: green-flowered and white bog orchids (*Platanthera saccata* & *dilatata*), fringed grass-of-parnassus (*Parnassia palustris*), self-heal (*Prunella vulgaris*), monkshood (*Aconitum delphinifolium*), and leather-leaved saxifrage (*Leptarrhena pyrolifolia*).

encompassing stand of Alaska yellow-cedar, rare in the Juneau area, was found in the 970 North subshed.

Most of the surveyed wetlands were free of invasive species, but non-native plants were present in and at the edges of some. European mountain ash, a bird-distributed invasive tree species, was found colonizing the edge of an open peatland on Douglas Island. Perennial sow-thistle, a troublesome invasive species that is a focus of control efforts in southeast Alaska, was found in the beach fringe near Hendrickson Creek. Reed canary grass was found in uplift meadows, marsh edges, and the edges of peatlands along roads perhaps most notably along Fish Creek Road. Creeping buttercup and comfrey were also found in wetland areas with a history of disturbance.

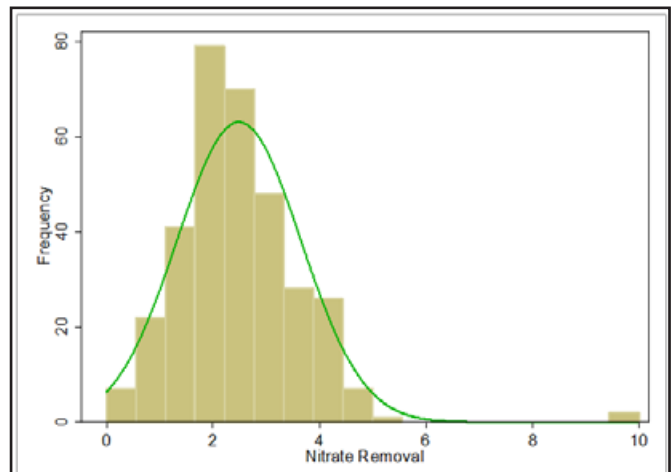
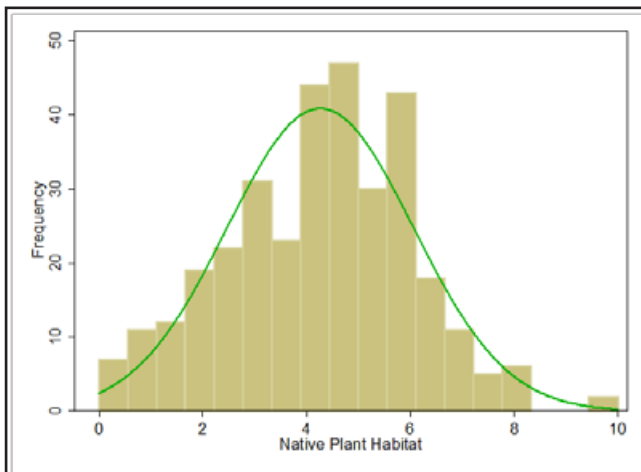
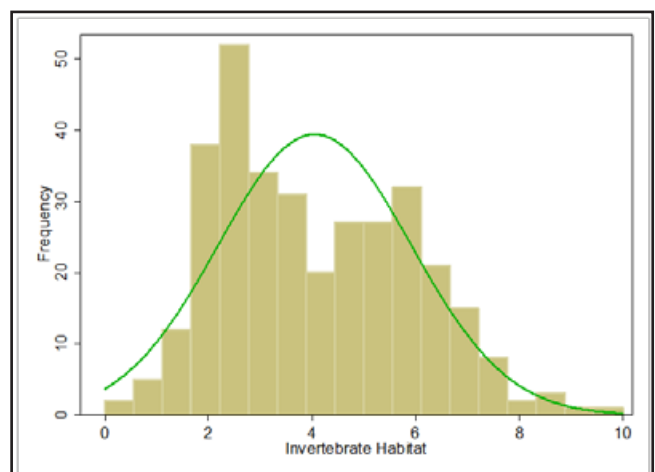
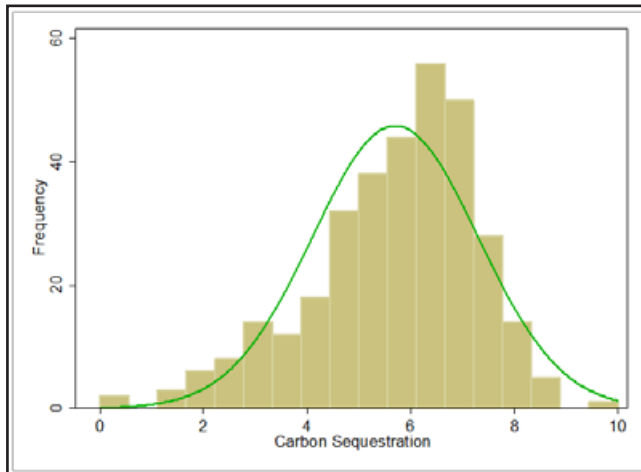
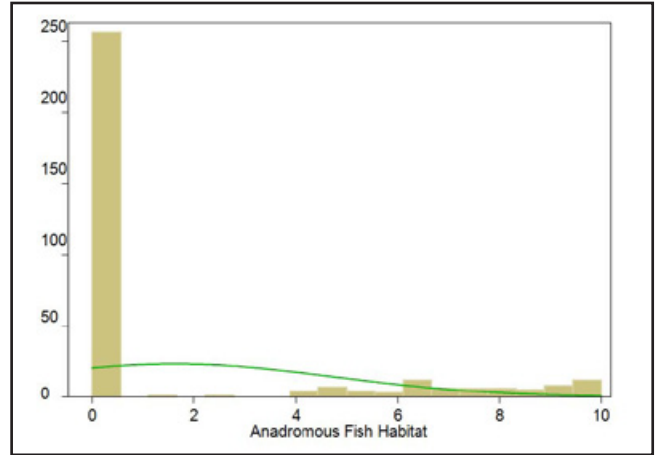
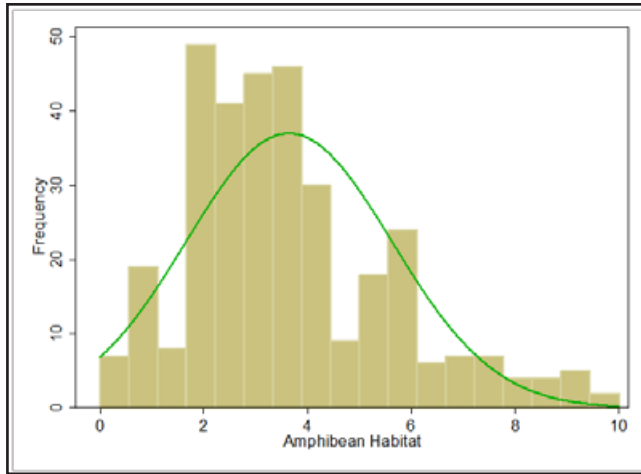
In brushy, forested or more remote wetlands, sign of human use was largely absent. The exception was marten sets attached to trees, which we found in impressively hard-to-reach scrub forests. In more open and easily traversed wetlands, human signs were generally apparent, if rarely prominent. Open peatlands near roads often had informal trails and flagged routes used by hunters, hikers and berry-pickers.

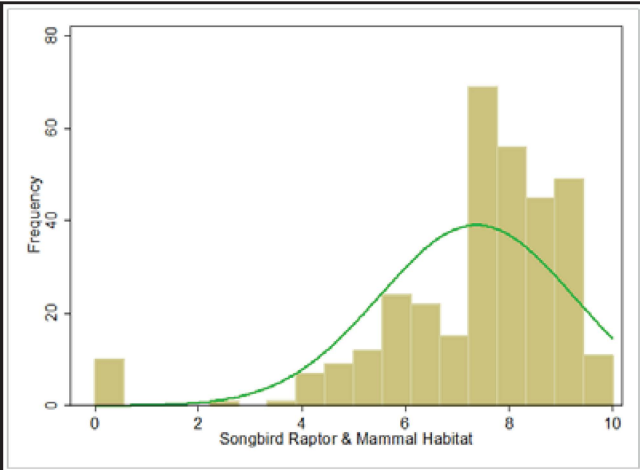
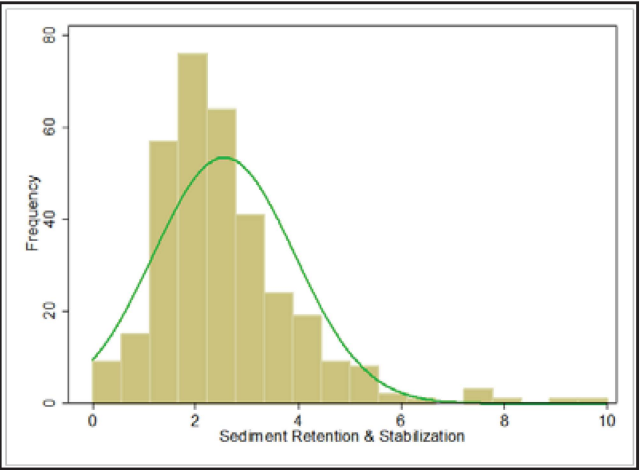
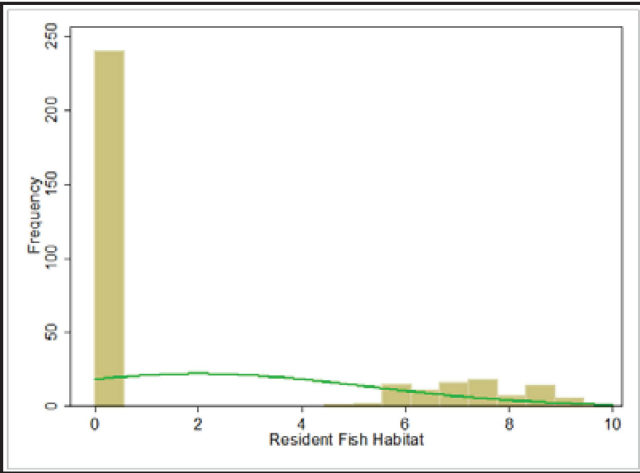
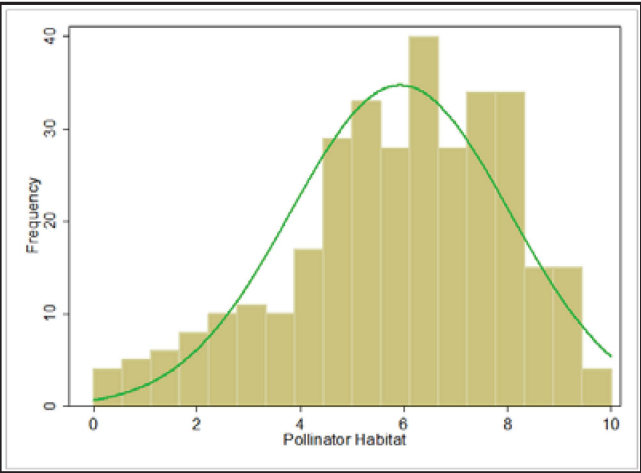
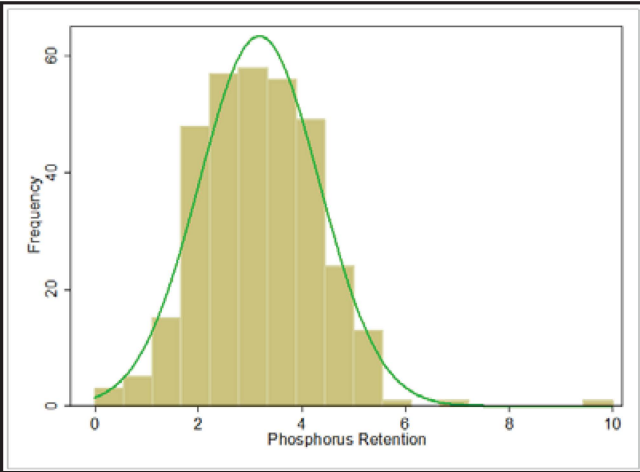
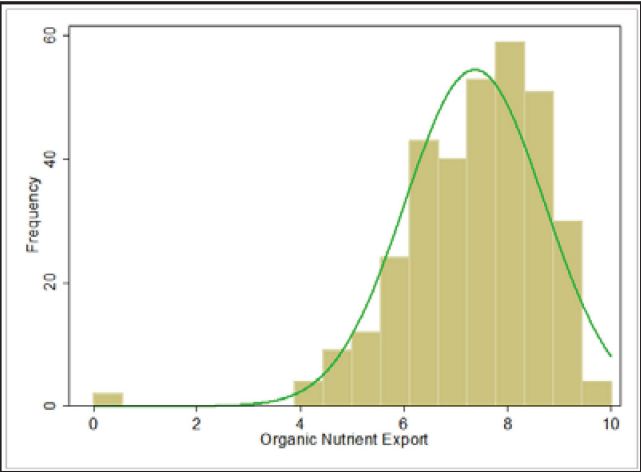
Cut conifers were common along roads. Makeshift board-walks had been placed on wetland trails behind residential areas. Other sites had hydrologic research equipment or were accessed by trapper's ORV trails. Short stretches of many informal trails were deeply or broadly eroded, particularly near the edges of openings where peat is often saturated, but most foot trails had little apparent impact. In some places, off-road vehicles had left ruts of torn up or flooded peat.

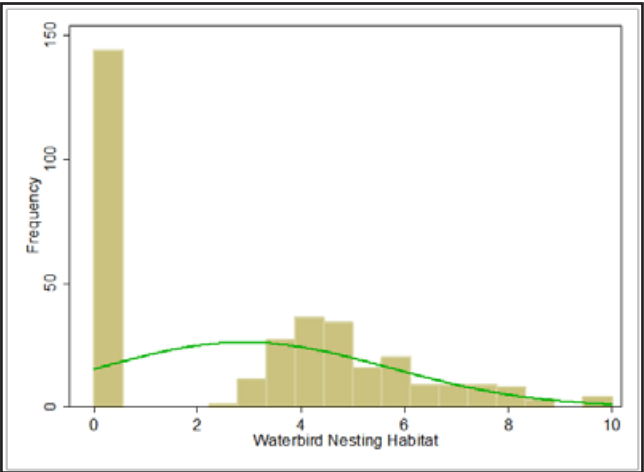
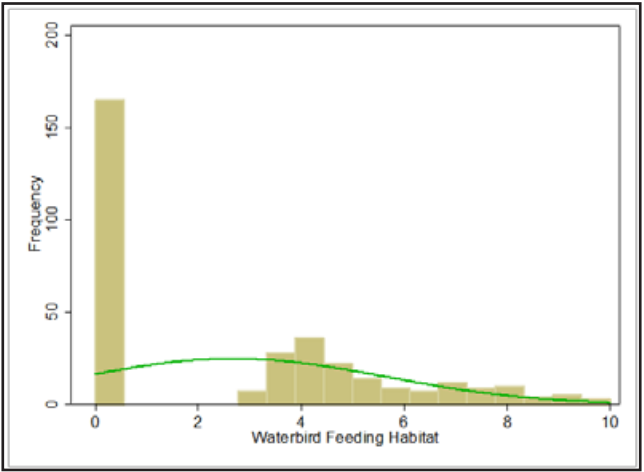
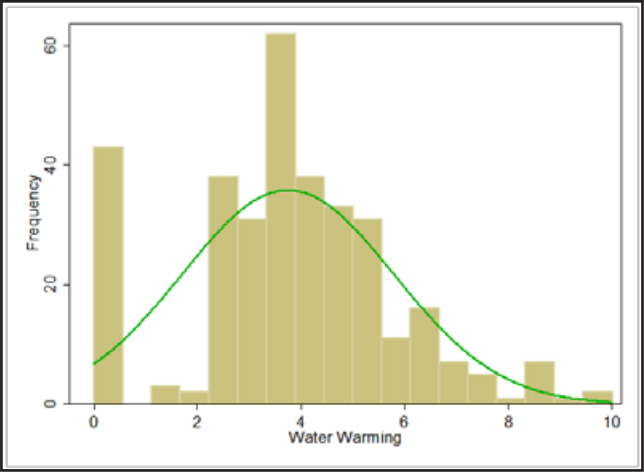
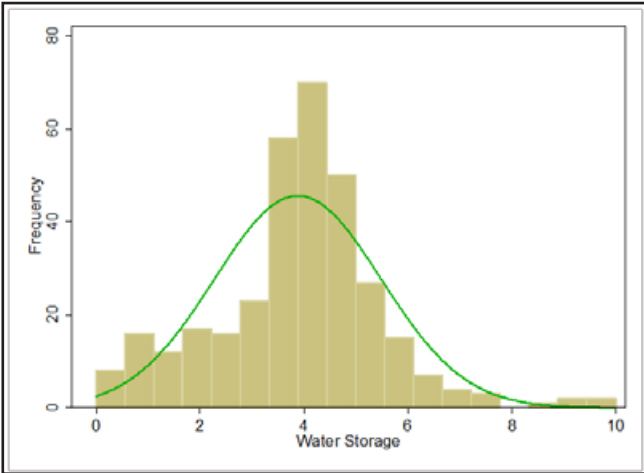
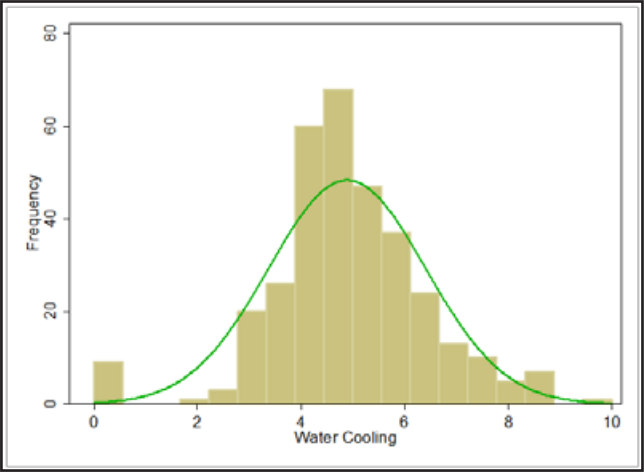
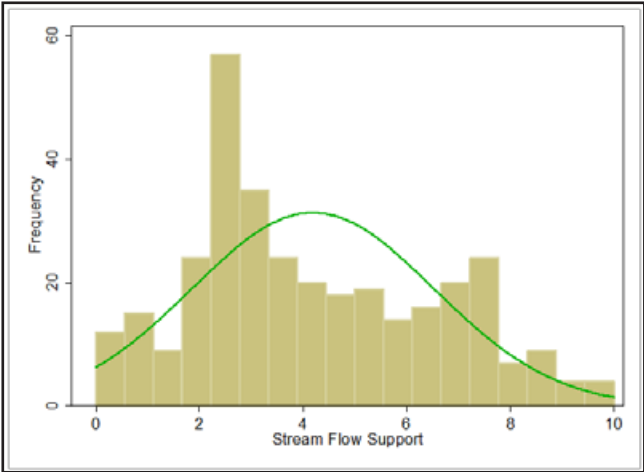
Wildlife sightings of note include an abundance of yearling western toads (with diminished populations region-wide) in the open peatlands of the Cowee watershed. Moose sign was common in the higher elevation Cowee peatlands. Although the extensive open peatlands of North Douglas Island were surveyed late in the breeding season for migratory birds, we observed a pair of the disturbance-sensitive wetland-nesting shorebird species Greater Yellowlegs, apparently still on territory in one of the larger and more remote units.

4.0 SCORES AND DISTRIBUTIONS

4.1 Score Distributions for FUNCTIONS for 330 Nontidal Wetlands

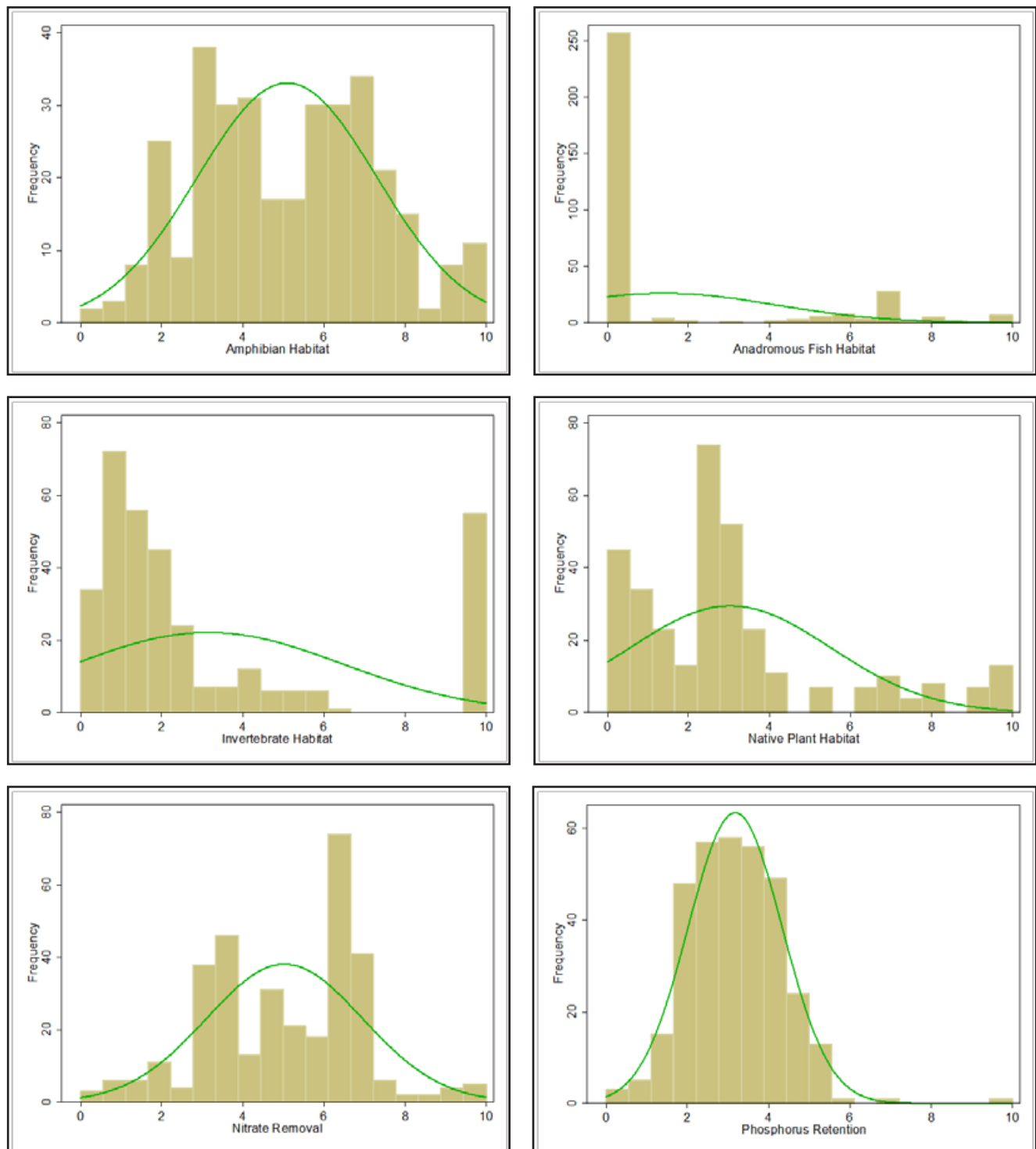


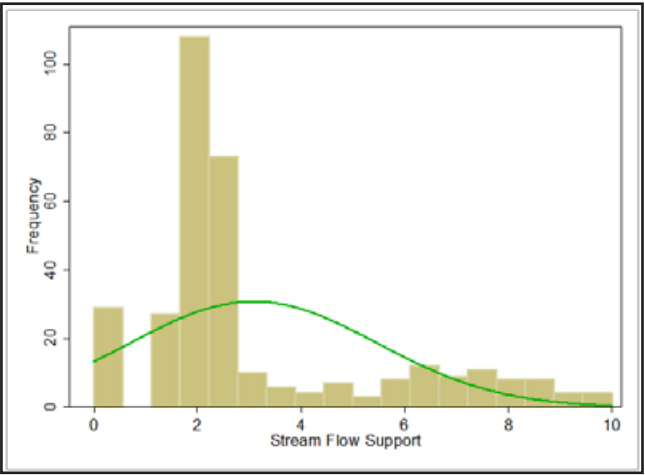
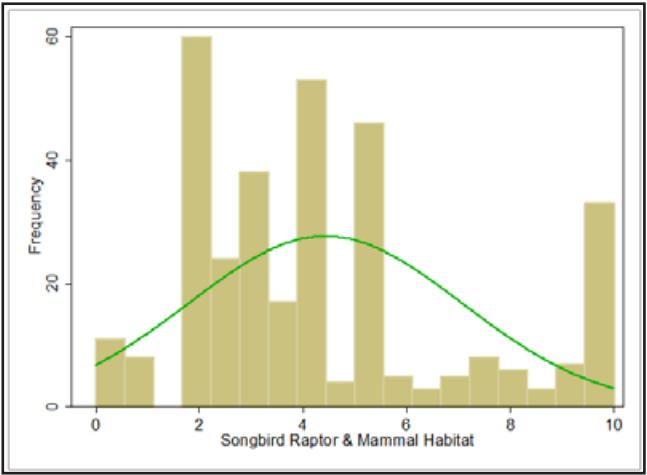
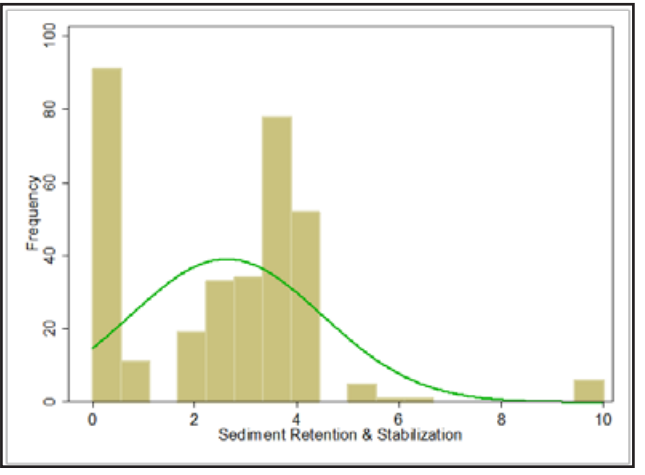
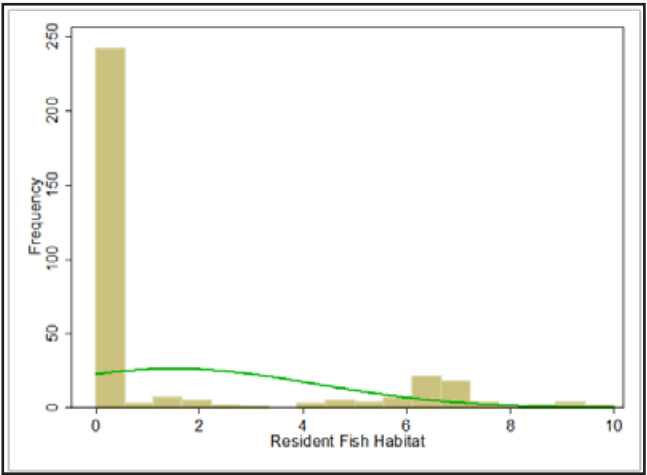
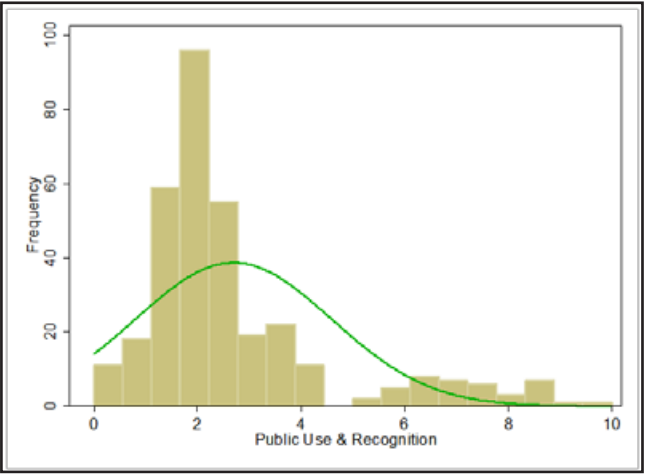
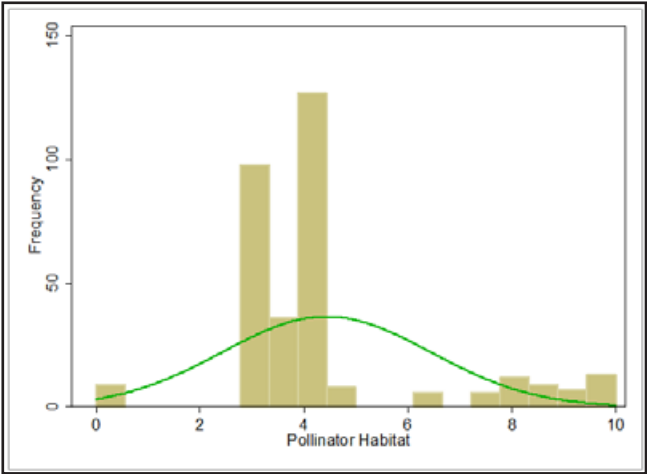


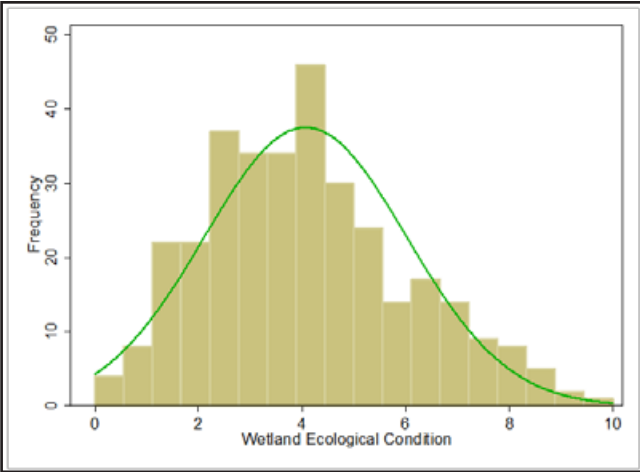
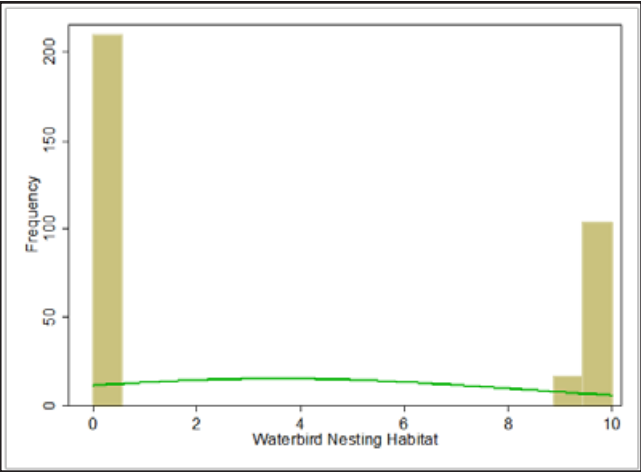
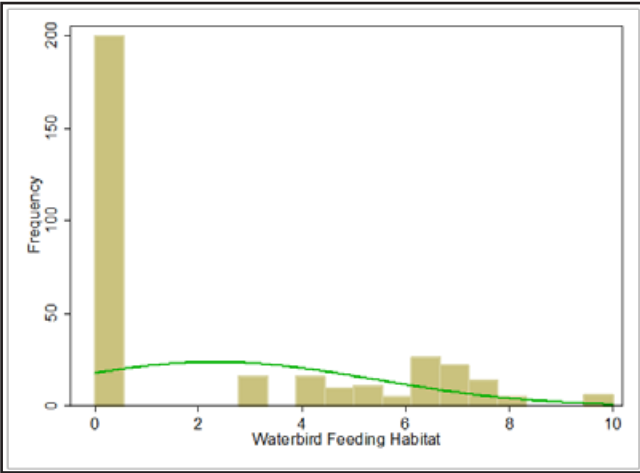
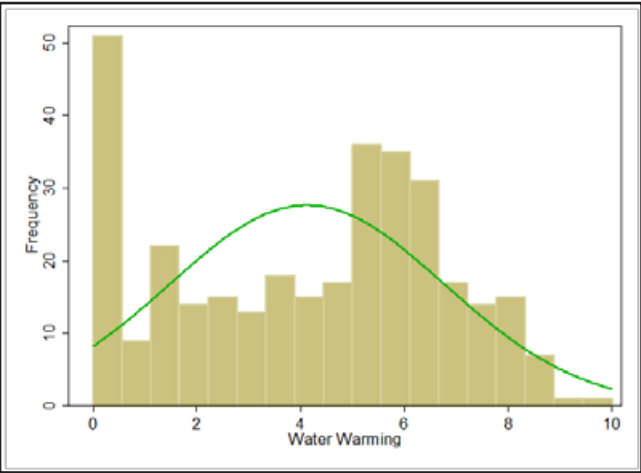
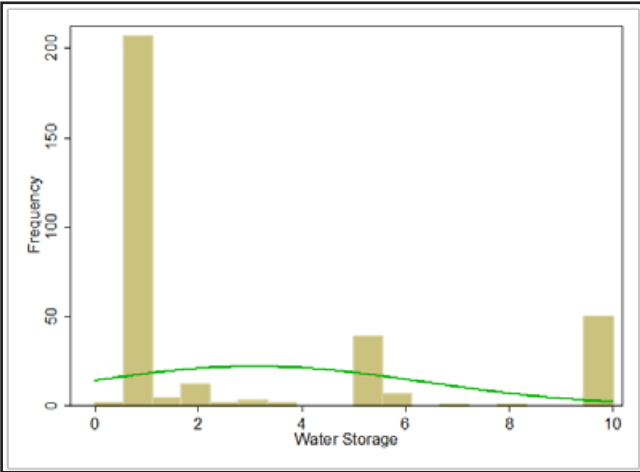
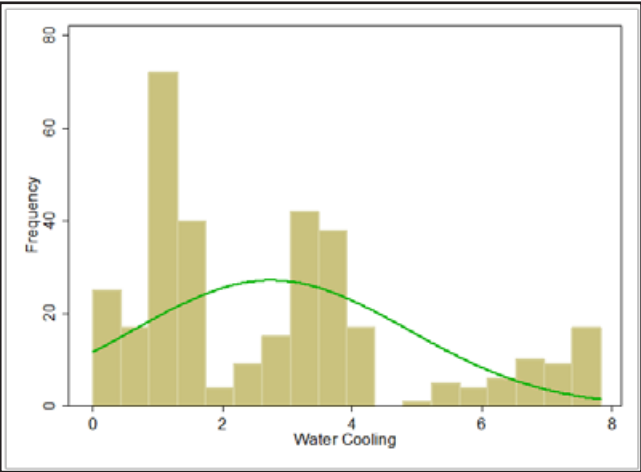


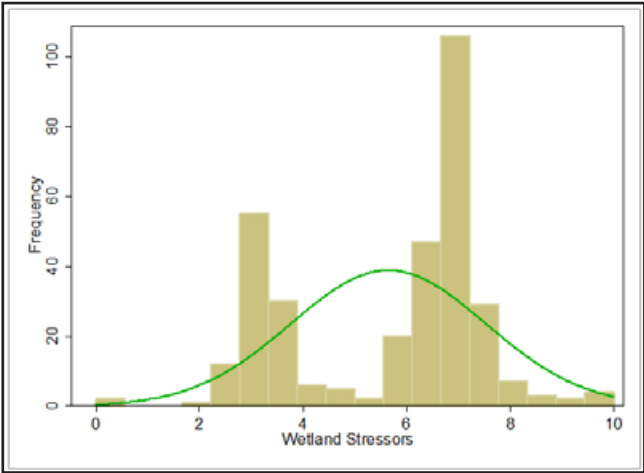
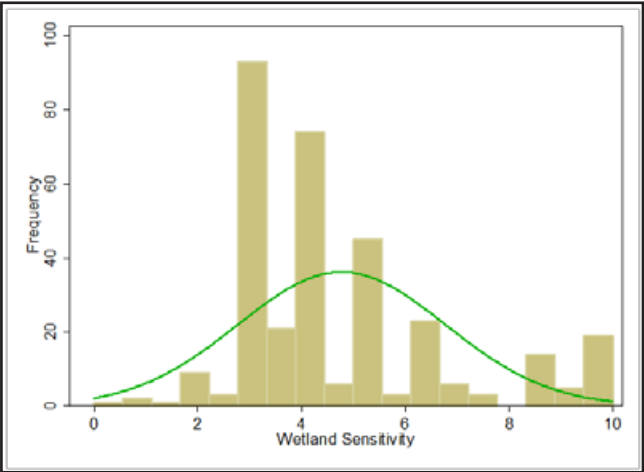
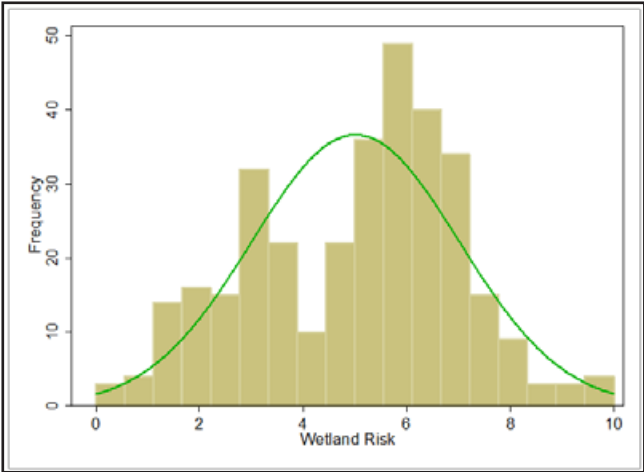
4.2 Score Distributions for VALUES¹ for 330 Nontidal Wetlands

1 and other attributes

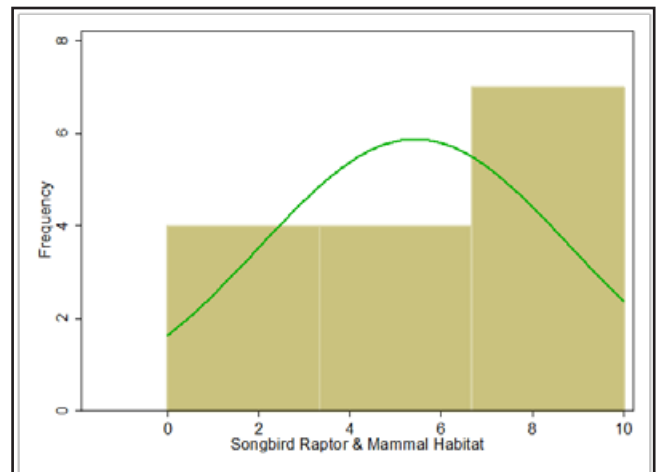
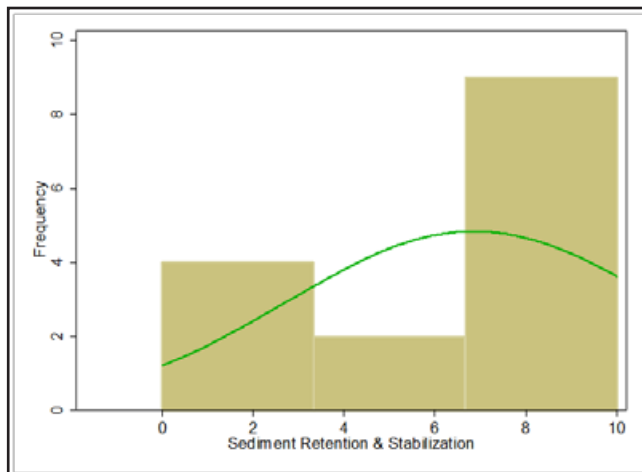
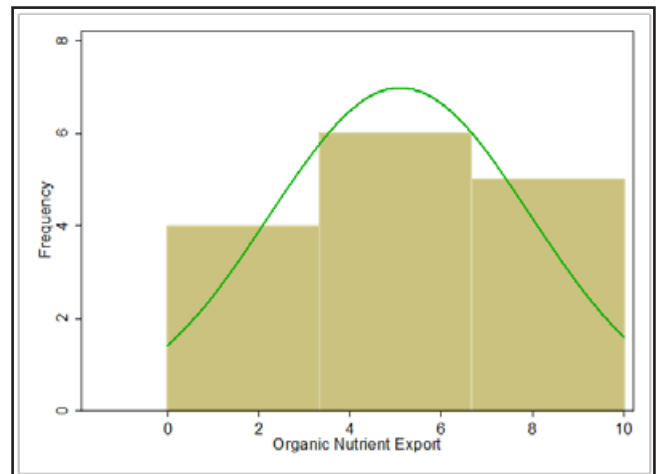
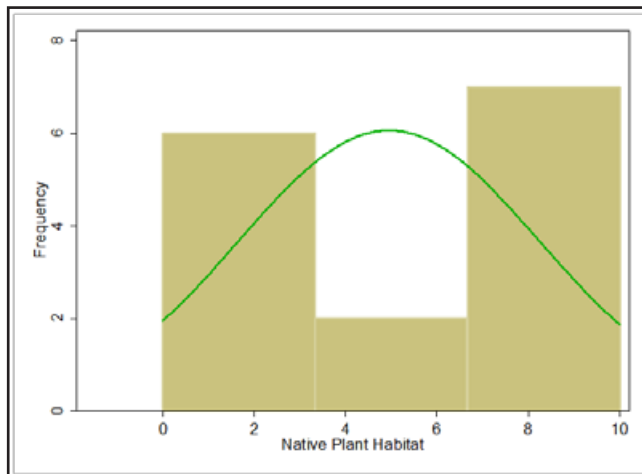
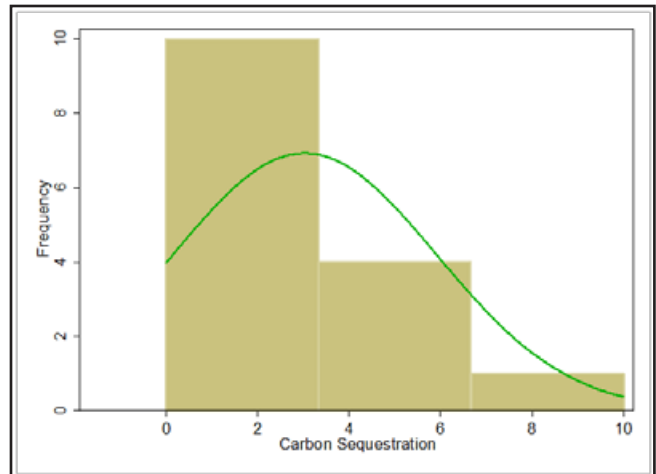
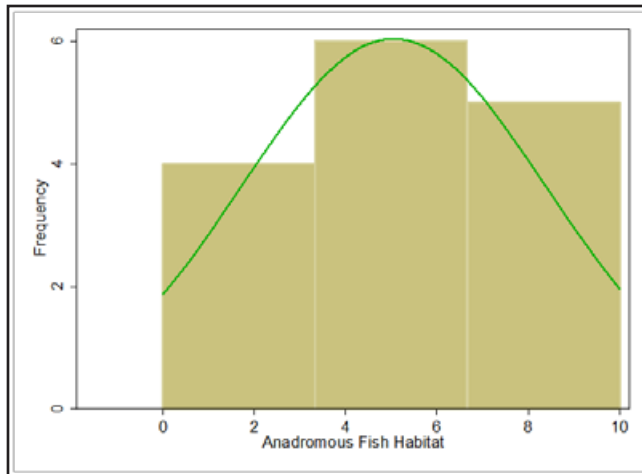


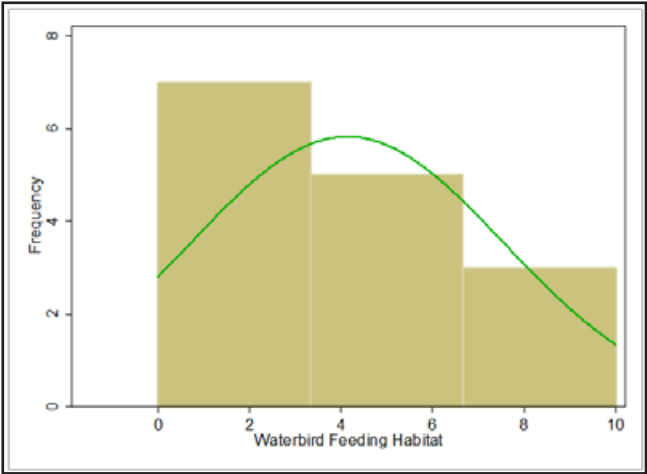




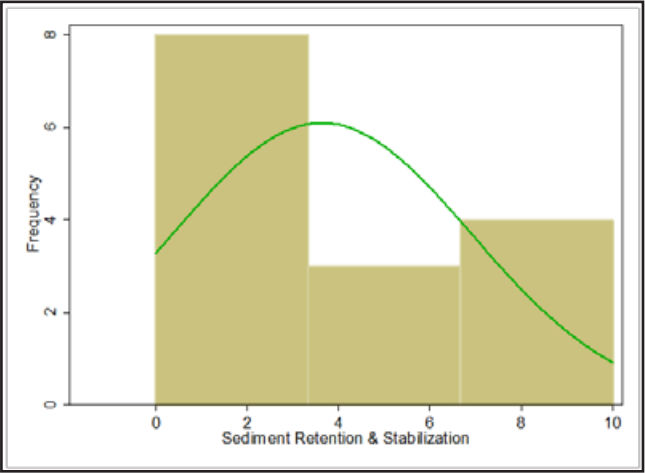
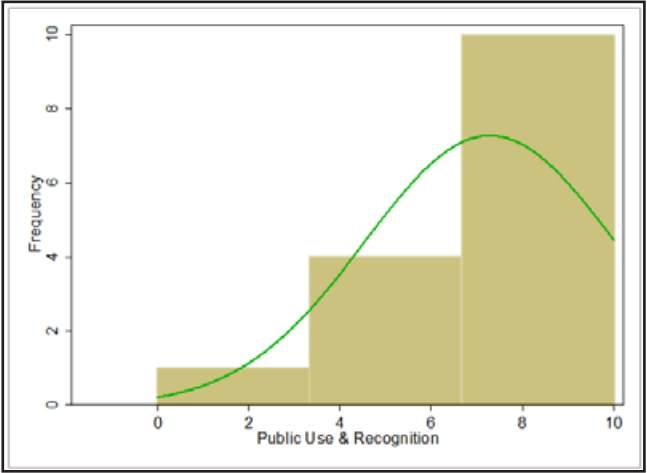
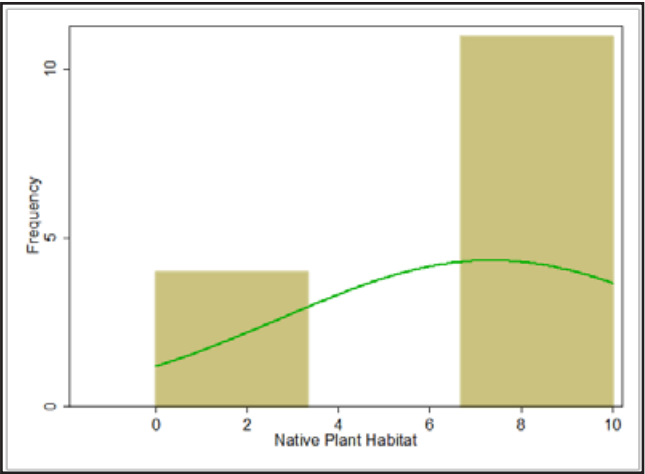
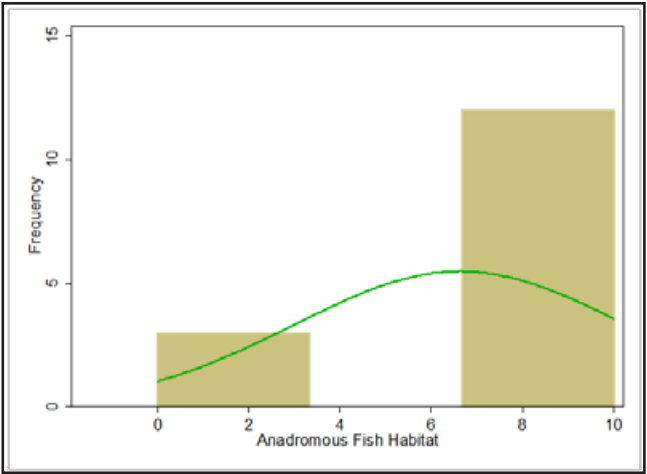


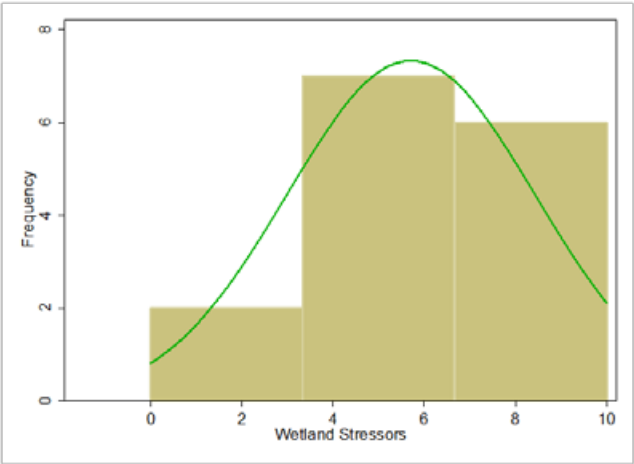
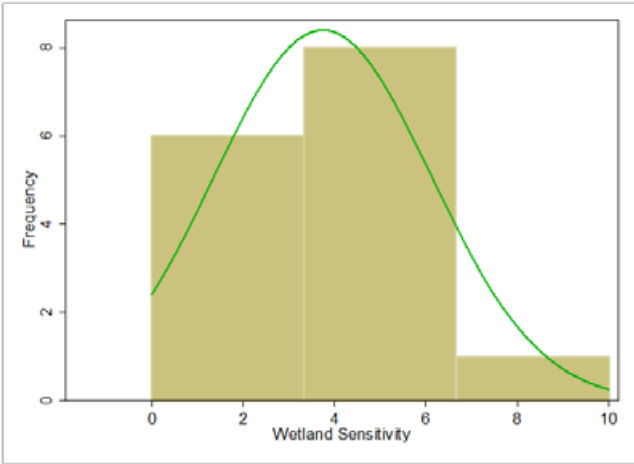
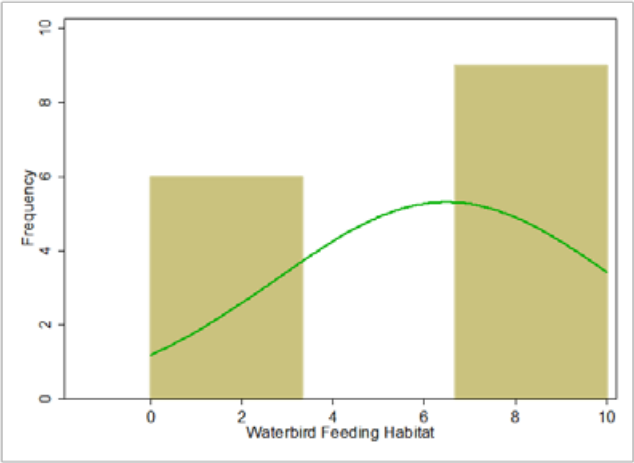
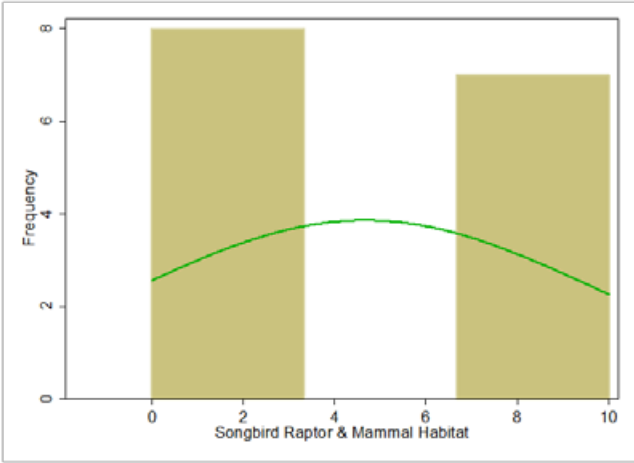
4.3 Tidal Sites Function Score Histograms





4.4 Tidal Sites Value Score Histograms





4.5 Nontidal Sites Ranked by Function

Carried over from 2014 report:

These tables show the highest- and lowest-scoring AA for each function or other attribute. For this report, “highest scoring” meant the highest 5 scores (plus any ties) and “lowest scoring” meant the lowest 5 scores (plus any ties).

Scores are not reported for one WESPAK-SE item—Subsistence Value—because every wetland in the study area would have a score of 0 since by law the City-Borough of Juneau has been designated a “Non-subsistence Use” area.

*haven't yet received tables for these
will add to next draft*

4.6 Offsite NONTIDAL Sites Ranked by Function

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	SV10of	5.11	Higher	4.53	Moderate
Amphibian Habitat	NV02of	4.80	Moderate	8.00	Higher
Amphibian Habitat	SV06of	4.46	Moderate	7.35	Higher
Amphibian Habitat	SD04of	4.43	Moderate	3.21	Lower
Amphibian Habitat	SV08of	3.74	Moderate	2.54	Lower
Amphibian Habitat	NV01of	3.48	Moderate	2.50	Lower
Amphibian Habitat	SV09of	3.34	Moderate	3.12	Lower
Amphibian Habitat	SV07of	3.07	Moderate	1.68	Lower
Amphibian Habitat	NV03of	2.47	Lower	3.33	Lower
Amphibian Habitat	SD01of	2.32	Lower	3.69	Lower
Amphibian Habitat	SD02of	2.31	Lower	6.20	Moderate
Amphibian Habitat	SD03of	2.17	Lower	6.20	Moderate

These tables are just place-holders: will change when the WDs are added and all units re-normalized.

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	SV07of	8.23	Higher	5.33	Moderate
Anadromous Fish Habitat	SV09of	7.28	Moderate	4.83	Moderate
Anadromous Fish Habitat	NV02of	4.60	Moderate	7.00	Moderate
Anadromous Fish Habitat	NV03of	4.02	Moderate	6.67	Moderate
Anadromous Fish Habitat	SV06of	4.01	Moderate	5.17	Moderate
Anadromous Fish Habitat	NV01of	0.00	Lower	0.00	Lower
Anadromous Fish Habitat	SD01of	0.00	Lower	0.00	Lower
Anadromous Fish Habitat	SD02of	0.00	Lower	0.00	Lower
Anadromous Fish Habitat	SD03of	0.00	Lower	0.00	Lower
Anadromous Fish Habitat	SD04of	0.00	Lower	0.00	Lower
Anadromous Fish Habitat	SV08of	0.00	Lower	0.00	Lower
Anadromous Fish Habitat	SV10of	0.00	Lower	0.00	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Aquatic Invertebrate Habitat	NV02of	5.72	Higher	10.00	Higher
Aquatic Invertebrate Habitat	SV10of	5.38	Higher	1.11	Lower
Aquatic Invertebrate Habitat	SD02of	4.68	Moderate	1.13	Lower
Aquatic Invertebrate Habitat	NV03of	4.49	Moderate	10.00	Higher
Aquatic Invertebrate Habitat	SD03of	3.15	Lower	1.99	Lower
Aquatic Invertebrate Habitat	SV06of	2.86	Lower	3.93	Moderate
Aquatic Invertebrate Habitat	SD01of	2.78	Lower	0.64	Lower
Aquatic Invertebrate Habitat	SD04of	2.56	Lower	0.78	Lower
Aquatic Invertebrate Habitat	SV08of	1.74	Lower	0.58	Lower
Aquatic Invertebrate Habitat	SV07of	1.07	Lower	3.26	Moderate
Aquatic Invertebrate Habitat	SV09of	0.65	Lower	3.33	Moderate
Aquatic Invertebrate Habitat	NV01of	0.27	Lower	10.00	Higher

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	SD01of	7.38	Higher		
Carbon Sequestration	SD02of	6.87	Higher		
Carbon Sequestration	SD03of	6.87	Higher		
Carbon Sequestration	SD04of	5.74	Moderate		
Carbon Sequestration	NV01of	5.34	Moderate		
Carbon Sequestration	SV10of	4.82	Moderate		
Carbon Sequestration	SV09of	3.94	Moderate		
Carbon Sequestration	SV07of	3.49	Lower		
Carbon Sequestration	NV02of	3.09	Lower		
Carbon Sequestration	NV03of	2.73	Lower		
Carbon Sequestration	SV06of	2.64	Lower		
Carbon Sequestration	SV08of	0.77	Lower		

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Ecological Condition	NV03of			6.64	Higher
Ecological Condition	NV01of			5.52	Moderate
Ecological Condition	SV07of			4.79	Moderate
Ecological Condition	SD02of			4.50	Moderate
Ecological Condition	SD01of			4.47	Moderate
Ecological Condition	NV02of			4.17	Moderate
Ecological Condition	SV08of			3.65	Moderate
Ecological Condition	SD03of			3.63	Moderate
Ecological Condition	SV09of			3.53	Moderate
Ecological Condition	SV10of			2.56	Lower
Ecological Condition	SD04of			2.05	Lower
Ecological Condition	SV06of			-0.93	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Native Plant Habitat	SV06of	8.62	Higher	0.43	Lower
Native Plant Habitat	SV10of	5.61	Higher	1.75	Lower
Native Plant Habitat	SD04of	5.58	Higher	2.88	Moderate
Native Plant Habitat	SV09of	5.00	Moderate	2.89	Moderate
Native Plant Habitat	SD02of	4.96	Moderate	0.43	Lower
Native Plant Habitat	SD03of	4.40	Moderate	0.43	Lower
Native Plant Habitat	SD01of	3.99	Moderate	0.43	Lower
Native Plant Habitat	SV07of	3.86	Moderate	0.48	Lower
Native Plant Habitat	SV08of	3.77	Moderate	0.43	Lower
Native Plant Habitat	NV01of	2.27	Lower	6.95	Higher
Native Plant Habitat	NV02of	1.34	Lower	8.10	Higher
Native Plant Habitat	NV03of	1.08	Lower	7.90	Higher

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Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Nitrate Removal	SV09of	4.44	Higher	6.46	Higher
Nitrate Removal	SV07of	2.93	Moderate	6.06	Higher
Nitrate Removal	NV03of	2.44	Moderate	6.77	Higher
Nitrate Removal	NV02of	2.40	Moderate	6.77	Higher
Nitrate Removal	NV01of	2.19	Moderate	6.97	Higher
Nitrate Removal	SD04of	2.11	Moderate	9.60	Higher
Nitrate Removal	SD03of	1.80	Lower	6.57	Higher
Nitrate Removal	SV10of	1.72	Lower	6.57	Higher
Nitrate Removal	SD01of	1.52	Lower	6.57	Higher
Nitrate Removal	SV06of	1.51	Lower	6.06	Higher
Nitrate Removal	SD02of	1.46	Lower	6.57	Higher
Nitrate Removal	SV08of	-0.94	Lower	2.78	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Organic Nutrient Export	SD04of	9.05	Higher		
Organic Nutrient Export	SV10of	8.93	Higher		
Organic Nutrient Export	SD02of	7.95	Higher		
Organic Nutrient Export	SV09of	7.78	Higher		
Organic Nutrient Export	SD03of	7.73	Higher		
Organic Nutrient Export	SD01of	7.18	Moderate		
Organic Nutrient Export	SV07of	6.82	Moderate		
Organic Nutrient Export	NV02of	6.30	Moderate		
Organic Nutrient Export	NV01of	6.13	Moderate		
Organic Nutrient Export	NV03of	5.93	Moderate		
Organic Nutrient Export	SV06of	5.00	Lower		
Organic Nutrient Export	SV08of	3.77	Lower		

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	SV09of	6.20	Higher	5.80	Higher
Phosphorus Retention	NV01of	4.06	Higher	3.81	Moderate
Phosphorus Retention	NV02of	3.98	Higher	8.54	Higher
Phosphorus Retention	SD04of	3.87	Higher	6.32	Higher
Phosphorus Retention	SD03of	3.73	Moderate	7.15	Higher
Phosphorus Retention	SV07of	3.69	Moderate	5.15	Higher
Phosphorus Retention	SD01of	3.47	Moderate	7.15	Higher
Phosphorus Retention	SV06of	3.38	Moderate	12.92	Higher
Phosphorus Retention	SD02of	2.74	Moderate	7.15	Higher
Phosphorus Retention	SV10of	2.06	Lower	7.15	Higher
Phosphorus Retention	NV03of	1.91	Lower	8.54	Higher
Phosphorus Retention	SV08of	0.30	Lower	0.00	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	SV10of	7.29	Higher	3.29	Moderate
Pollinator Habitat	SD04of	6.85	Higher	3.29	Moderate
Pollinator Habitat	NV01of	5.31	Moderate	7.85	Higher
Pollinator Habitat	SV09of	5.15	Moderate	3.29	Moderate
Pollinator Habitat	SD02of	4.98	Moderate	3.26	Moderate
Pollinator Habitat	NV03of	4.87	Moderate	8.52	Higher
Pollinator Habitat	SV08of	3.35	Lower	3.26	Moderate
Pollinator Habitat	NV02of	3.17	Lower	8.66	Higher
Pollinator Habitat	SV06of	2.79	Lower	3.26	Moderate
Pollinator Habitat	SV07of	2.77	Lower	3.29	Moderate
Pollinator Habitat	SD01of	2.21	Lower	3.26	Moderate
Pollinator Habitat	SD03of	2.10	Lower	3.26	Moderate

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Public Use & Recognition	SV06of			9.70	Higher
Public Use & Recognition	SV08of			9.34	Higher
Public Use & Recognition	NV02of			8.99	Higher
Public Use & Recognition	NV03of			8.97	Higher
Public Use & Recognition	SV07of			7.51	Higher
Public Use & Recognition	SD04of			2.55	Moderate
Public Use & Recognition	SV10of			2.29	Lower
Public Use & Recognition	SD01of			2.20	Lower
Public Use & Recognition	SD02of			2.20	Lower
Public Use & Recognition	SD03of			2.20	Lower
Public Use & Recognition	NV01of			1.78	Lower
Public Use & Recognition	SV09of			1.50	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	SV07of	7.67	Higher	6.15	Higher
Resident Fish Habitat	SV09of	6.80	Moderate	5.58	Moderate
Resident Fish Habitat	NV02of	6.14	Moderate	8.08	Higher
Resident Fish Habitat	SV06of	5.69	Moderate	5.96	Higher
Resident Fish Habitat	NV03of	4.97	Moderate	7.69	Higher
Resident Fish Habitat	NV01of	0.00	Lower	0.00	Lower
Resident Fish Habitat	SD01of	0.00	Lower	0.00	Lower
Resident Fish Habitat	SD02of	0.00	Lower	0.00	Lower
Resident Fish Habitat	SD03of	0.00	Lower	0.00	Lower
Resident Fish Habitat	SD04of	0.00	Lower	0.00	Lower
Resident Fish Habitat	SV08of	0.00	Lower	0.00	Lower
Resident Fish Habitat	SV10of	0.00	Lower	0.00	Lower

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Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Sediment Retention	SD01of	4.81	Higher	4.24	Moderate
Sediment Retention	SV09of	4.26	Higher	2.90	Moderate
Sediment Retention	NV02of	4.10	Higher	3.12	Moderate
Sediment Retention	SD04of	3.75	Moderate	3.86	Moderate
Sediment Retention	SD03of	3.74	Moderate	4.36	Moderate
Sediment Retention	SV07of	3.70	Moderate	2.94	Moderate
Sediment Retention	NV03of	3.66	Moderate	3.12	Moderate
Sediment Retention	NV01of	3.33	Moderate	2.74	Moderate
Sediment Retention	SD02of	3.23	Moderate	4.36	Moderate
Sediment Retention	SV06of	1.50	Lower	2.87	Moderate
Sediment Retention	SV10of	0.93	Lower	4.31	Moderate
Sediment Retention	SV08of	-0.99	Lower	0.17	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	SV10of	9.43	Higher	1.11	Lower
Songbird, Raptor, & Mammal Habitat	SD04of	7.85	Higher	3.33	Moderate
Songbird, Raptor, & Mammal Habitat	SV09of	7.74	Higher	1.11	Lower
Songbird, Raptor, & Mammal Habitat	SD02of	7.54	Higher	4.93	Moderate
Songbird, Raptor, & Mammal Habitat	NV03of	7.37	Higher	5.33	Moderate
Songbird, Raptor, & Mammal Habitat	NV02of	7.25	Higher	6.45	Moderate
Songbird, Raptor, & Mammal Habitat	SD03of	7.24	Higher	4.93	Moderate
Songbird, Raptor, & Mammal Habitat	NV01of	7.00	Higher	4.67	Moderate
Songbird, Raptor, & Mammal Habitat	SV06of	6.87	Moderate	10.00	Higher
Songbird, Raptor, & Mammal Habitat	SV07of	6.01	Moderate	10.00	Higher
Songbird, Raptor, & Mammal Habitat	SD01of	5.11	Moderate	4.93	Moderate
Songbird, Raptor, & Mammal Habitat	SV08of	4.21	Moderate	10.00	Higher

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	SD04of	7.23	Higher	1.74	Moderate
Stream Flow Support	NV02of	6.35	Higher	6.07	Higher
Stream Flow Support	SV09of	6.27	Higher	6.22	Higher
Stream Flow Support	SV10of	5.51	Moderate	2.30	Moderate
Stream Flow Support	SV07of	5.46	Moderate	6.93	Higher
Stream Flow Support	SD02of	4.54	Moderate	2.16	Moderate
Stream Flow Support	SD03of	4.54	Moderate	1.86	Moderate
Stream Flow Support	NV03of	3.88	Moderate	5.22	Higher
Stream Flow Support	NV01of	3.33	Moderate	1.28	Moderate
Stream Flow Support	SD01of	1.62	Lower	2.38	Moderate
Stream Flow Support	SV06of	0.00	Lower	0.00	Lower
Stream Flow Support	SV08of	0.00	Lower	0.00	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Stress Potential	NV03of			12.92	Higher
Stress Potential	NV02of			12.72	Higher
Stress Potential	SV06of			10.03	Higher
Stress Potential	NV01of			9.60	Higher
Stress Potential	SV08of			9.56	Higher
Stress Potential	SV09of			6.55	Moderate
Stress Potential	SV07of			5.47	Moderate
Stress Potential	SV10of			3.79	Lower
Stress Potential	SD01of			3.16	Lower
Stress Potential	SD02of			3.16	Lower
Stress Potential	SD03of			3.16	Lower
Stress Potential	SD04of			3.16	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	SD01of	8.43	Higher	0.00	Lower
Water Cooling	SD04of	6.58	Higher	3.95	Higher
Water Cooling	SV10of	6.51	Higher	3.07	Moderate
Water Cooling	SV09of	6.35	Higher	6.22	Higher
Water Cooling	SV07of	5.40	Higher	7.07	Higher
Water Cooling	NV02of	5.04	Moderate	5.06	Higher
Water Cooling	SD02of	4.89	Moderate	1.58	Lower
Water Cooling	SD03of	4.89	Moderate	1.58	Lower
Water Cooling	SV08of	4.60	Moderate	0.00	Lower
Water Cooling	NV03of	4.34	Moderate	4.81	Higher
Water Cooling	SV06of	3.68	Moderate	0.96	Lower
Water Cooling	NV01of	3.58	Moderate	3.07	Moderate

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Water Storage	SV07of	5.68	Higher	1.11	Lower
Water Storage	SV09of	5.61	Higher	10.00	Higher
Water Storage	NV01of	5.46	Higher	10.00	Higher
Water Storage	NV02of	5.37	Higher	10.00	Higher
Water Storage	NV03of	5.23	Higher	10.00	Higher
Water Storage	SD03of	5.17	Higher	1.11	Lower
Water Storage	SD04of	4.63	Moderate	1.11	Lower
Water Storage	SD02of	4.59	Moderate	1.11	Lower
Water Storage	SD01of	2.77	Moderate	1.67	Lower
Water Storage	SV10of	2.53	Lower	1.11	Lower
Water Storage	SV06of	1.97	Lower	10.00	Higher
Water Storage	SV08of	-1.09	Lower	0.00	Lower

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Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Water Warming	SD01of	8.40	Higher	4.32	Moderate
Water Warming	SD02of	8.36	Higher	5.18	Moderate
Water Warming	SD03of	8.36	Higher	5.17	Moderate
Water Warming	SV10of	7.00	Higher	5.51	Moderate
Water Warming	SV06of	6.30	Higher	4.16	Moderate
Water Warming	NV03of	4.79	Higher	4.80	Moderate
Water Warming	SV07of	4.75	Higher	7.88	Higher
Water Warming	NV02of	3.78	Moderate	5.10	Moderate
Water Warming	SV09of	3.74	Moderate	5.28	Moderate
Water Warming	SD04of	3.61	Moderate	9.18	Higher
Water Warming	NV01of	3.19	Moderate	4.93	Moderate
Water Warming	SV08of	0.00	Lower	0.00	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	NV02of	7.76	Higher	3.96	Moderate
Waterbird Feeding Habitat	SV06of	7.26	Higher	10.00	Higher
Waterbird Feeding Habitat	SD03of	5.13	Moderate	5.94	Higher
Waterbird Feeding Habitat	SD02of	4.76	Moderate	0.00	Lower
Waterbird Feeding Habitat	SD01of	4.04	Moderate	0.00	Lower
Waterbird Feeding Habitat	SV08of	3.47	Moderate	10.00	Higher
Waterbird Feeding Habitat	NV01of	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	NV03of	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	SD04of	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	SV07of	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	SV09of	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	SV10of	0.00	Lower	0.00	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Waterbird Nesting Habitat	NV02of	7.89	Higher	9.80	Higher
Waterbird Nesting Habitat	SD03of	6.36	Higher	9.70	Higher
Waterbird Nesting Habitat	SV06of	6.12	Higher	10.00	Higher
Waterbird Nesting Habitat	NV03of	5.17	Moderate	0.00	Lower
Waterbird Nesting Habitat	SV09of	3.57	Moderate	0.00	Lower
Waterbird Nesting Habitat	SV07of	3.28	Moderate	0.00	Lower
Waterbird Nesting Habitat	NV01of	2.80	Moderate	0.00	Lower
Waterbird Nesting Habitat	SD01of	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	SD02of	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	SD04of	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	SV08of	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	SV10of	0.00	Lower	0.00	Lower

Function or Other Attribute	Site	Function Score	Function Rating	Value Score	Value Rating
Wetland Sensitivity	SV10of			6.45	Moderate
Wetland Sensitivity	SV09of			5.38	Moderate
Wetland Sensitivity	NV03of			3.23	Lower
Wetland Sensitivity	SD01of			3.23	Lower
Wetland Sensitivity	SD02of			3.23	Lower
Wetland Sensitivity	SD03of			3.23	Lower
Wetland Sensitivity	SD04of			3.23	Lower
Wetland Sensitivity	NV02of			3.01	Lower
Wetland Sensitivity	SV08of			2.29	Lower
Wetland Sensitivity	NV01of			1.08	Lower
Wetland Sensitivity	SV07of			1.08	Lower
Wetland Sensitivity	SV06of			0.86	Lower

4.7 Offsite TIDAL Sites Ranked by Function

Anadromous Fish Habitat

Site	Function Score	Function Rating	Value Score	Value Rating
SV04of	7.33	Higher	10	Higher
SV05of	7.11	Higher	10	Higher
LC14of	5.18	Moderate	10	Higher
LC13of	4.85	Moderate	10	Higher
LC12of	3.57	Moderate	10	Higher
SV02of	0	Lower	0	Lower
SV03of	0	Lower	0	Lower

Carbon Sequestration

Site	Function Score	Function Rating	Value Score	Value Rating
LC14of	7.77	Higher	N.A.	N.A.
LC13of	7.75	Higher	N.A.	N.A.
SV02of	4.37	Moderate	N.A.	N.A.
SV04of	4.37	Moderate	N.A.	N.A.
SV05of	4.37	Moderate	N.A.	N.A.
LC12of	4.14	Moderate	N.A.	N.A.
SV03of	3.91	Moderate	N.A.	N.A.

Native Plant Habitat

Site	Function Score	Function Rating	Value Score	Value Rating
SV03of	9.93	Higher	4.12	Higher
SV02of	9.65	Higher	4.12	Higher
SV04of	9.09	Higher	10.00	Higher
SV05of	9.00	Higher	10.00	Higher
LC14of	8.67	Higher	10.00	Higher
LC12of	8.66	Higher	10.00	Higher
LC13of	7.03	Higher	10.00	Higher

Organic Nutrient Export

Site	Function Score	Function Rating	Value Score	Value Rating
LC13of	4.46	Moderate	N.A.	N.A.
LC14of	3.75	Lower	N.A.	N.A.
SV02of	2.40	Lower	N.A.	N.A.
SV04of	1.96	Lower	N.A.	N.A.
LC12of	1.23	Lower	N.A.	N.A.
SV05of	1.18	Lower	N.A.	N.A.
SV03of	0.13	Lower	N.A.	N.A.

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Public Use & Recognition

Site	Function Score	Function Rating	Value Score	Value Rating
LC12of	N.A.	N.A.	10.00	Higher
SV02of	N.A.	N.A.	10.00	Higher
SV04of	N.A.	N.A.	10.00	Higher
SV05of	N.A.	N.A.	10.00	Higher
SV03of	N.A.	N.A.	9.40	Higher
LC13of	N.A.	N.A.	6.27	Higher
LC14of	N.A.	N.A.	0.90	Lower

Sediment Retention & Stabilization

Site	Function Score	Function Rating	Value Score	Value Rating
SV04of	7.33	Higher	10	Higher
SV05of	7.11	Higher	10	Higher
LC14of	5.18	Moderate	10	Higher
LC13of	4.85	Moderate	10	Higher
LC12of	3.57	Moderate	10	Higher
SV02of	0	Lower	0	Lower
SV03of	0	Lower	0	Lower

Songbird, Raptor, & Mammal Habitat

Site	Function Score	Function Rating	Value Score	Value Rating
SV02of	10.00	Higher	10.00	Higher
SV03of	10.00	Higher	10.00	Higher
SV04of	10.00	Higher	10.00	Higher
LC14of	9.79	Higher	10.00	Higher
LC12of	9.28	Higher	10.00	Higher
SV05of	9.14	Higher	10.00	Higher
LC13of	7.01	Higher	10.00	Higher

Waterbird Feeding Habitat

Site	Function Score	Function Rating	Value Score	Value Rating
SV02of	10.00	Higher	10.00	Higher
SV04of	10.00	Higher	10.00	Higher
SV05of	8.63	Higher	10.00	Higher
SV03of	7.67	Higher	10.00	Higher
LC13of	5.03	Moderate	10.00	Higher
LC12of	4.07	Moderate	10.00	Higher
LC14of	1.87	Lower	10.00	Higher

Wetland Sensitivity

Site	Function Score	Function Rating	Value Score	Value Rating
LC14of	N.A.	N.A.	9.39	Higher
LC12of	N.A.	N.A.	6.06	Higher
LC13of	N.A.	N.A.	5.75	Higher
SV04of	N.A.	N.A.	4.81	Higher
SV03of	N.A.	N.A.	4.48	Higher
SV05of	N.A.	N.A.	4.26	Moderate
SV02of	N.A.	N.A.	3.93	Moderate

Wetland Stressors

Site	Function Score	Function Rating	Value Score	Value Rating
LC13of	N.A.	N.A.	8.53	Higher
LC14of	N.A.	N.A.	8.22	Higher
SV02of	N.A.	N.A.	7.56	Higher
SV03of	N.A.	N.A.	6.79	Higher
LC12of	N.A.	N.A.	6.27	Higher
SV04of	N.A.	N.A.	5.35	Moderate
SV05of	N.A.	N.A.	5.03	Moderate

5.0 IMPLEMENTATION

5.1 Background

Prior to 1993, wetland management in Juneau was primarily under Corps jurisdiction. In 1992, in order to establish a stronger local role in wetland management, CBJ government adopted the Juneau Wetlands Management Plan (JWMP). Regulatory provisions of JWMP, and maps of wetlands covered under the plan, were adopted into the CBJ Land Use Code and given oversight by the newly formed CBJ Wetlands Review Board. Part of the board's oversight included adoption of a general wetlands mitigation strategy. This strategy pursues 1) wetlands protection, 2) public education, and 3) wetlands restoration and creation as the primary mitigating actions for wetland impacts. Following adoption of the JWMP into Land Use Code, regulatory provisions of the JWMP have had the full effect of federal law administered at the local level. The JWMP was recognized by the U.S. Army Corps of Engineers (Corps) and used at the federal level for decisions regarding local wetland fill permits and other management strategies for public wetland resources.

Under the JWMP, Juneau's wetlands were divided into four main categories: A, B, C, and D. Category A and B were considered higher quality wetlands; C and D were considered lower quality wetlands. A fifth category, EP ("Enhancement Potential"), is designated to wetlands with particular potential for wetlands enhancement projects. In 1994 the Corps signed a cooperative agreement with CBJ government allowing the Wetlands Review Board to assume all responsibility for C, D, and EP wetlands, providing the review board with local oversight and authority to grant a General Permit for wetland fill. The Corps retained permitting authority for the higher quality A and B wetlands, as well as any wetlands not otherwise classified under the wetland management plan or identified on existing wetland mapping. Any impacts proposed for A or B wetlands required an individual or nationwide permit to be issued by the Corps, granted within the standard federal regulatory procedure.

The Corps of Engineers continued to reissue local authority for General Permits in C, D, and EP wetlands from 1993 until 2011. In 2011, the Corps did not renew General Permits because the vast majority of C and D wetlands (as identified on existing JWMP wetland maps) had been filled. Following a grant award, CBJ scheduled updates to the JWMP for 2013; field mapping was concluded in 2014 and a new draft of the JWMP was begun in 2015. This draft addresses

new strategies for local wetland regulation as well as exploring new opportunities for meeting requirements of the Federal Compensatory Mitigation Rule for development impacts in Juneau's wetland areas. This JWMP Update is the third stage of a larger 3.5 year project entitled, "The City and Borough of Juneau Habitat Mapping and Analysis Project."

5.1.1 Wetland Management in CBJ

Wetland management in Juneau (since the expiration of General Permits in 2011) continues under direction and oversight from the Wetland Review Board. The Board is composed of seven members, appointed by the Assembly who chooses representatives from the public at large, and two representatives of the CBJ Planning Commission. When making appointments, the Assembly is required to consider the "broadest possible representation from those technical fields with knowledge of the values, functions and uses of wetlands, such as fish or wildlife biology, geology, hydrology, land use planning, and engineering" (CBJ 49.70.1010). Appointments are three-year terms. The presence of five members constitutes a quorum and any action of the Board requires five or more affirmative votes to be approved.

At present, the Board has no authority to issue wetland permits, and does not have a defined framework for interpreting or applying broadly applicable mitigation actions (the Juneau Wetlands Mitigation Bank was initiated in 2008 and abandoned in 2009). Instead, the Board functions as an advisory body to the Planning Commission and the Director of the Community Development Department regarding general wetlands issues. Board responsibilities include (but are not limited to) providing comments on wetland permit applications under Corps review, reviewing protection standards for streams and riparian areas, and the overall conduct of local, state and federal projects that affect wetlands and streams.

Following (and preceding) an attempt to establish the Juneau Wetlands Mitigation Bank, the primary method for providing mitigating actions in CBJ is through the Fee-in-Lieu program sponsored by the Southeast Alaska Land Trust (SEAL Trust), which is required to meet the new regulations named in the 2008 U.S. Army Corps of Engineer Compensatory Mitigation Rule (see section 4.1.2). SEAL Trust's Fee-in-Lieu program functions similarly to a preservation bank: the funds they receive for wetland mitigation fund permanent conservation of wetland areas across Southeast Alaska. The fee-in-lieu program is a form of

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wetland mitigation but meets the second (not the first) preferred option as defined by the Corps.

5.1.2 Federal Rule

The Federal regulation of 2008, known commonly as the “Federal Rule” or “Federal Rule on Compensatory Mitigation,” is officially coded and titled “33CFR Part 332, Compensatory Mitigation for Losses of Aquatic Resources.” The purpose of it is to establish standards and criteria for the use of all types of compensatory mitigation, including on-site and off-site permittee-responsible mitigation, mitigation banks, and in-lieu fee mitigation to offset unavoidable impacts to waters of the U.S. authorized through Department of the Army permits (“Corps permits”) under Section 404 of the Clean Water Act and Sections 9 or 10 of the Rivers and Harbors Act. The Federal Rule directs that the standards and criteria shall:

- *to the extent practicable, maximize available credits and opportunities for mitigation*
- *provide for regional variations in wetland conditions, functions, and values, and*
- *apply equivalent standards and criteria to each type of compensatory mitigation.*

Nothing in the Federal Rule changes the requirement that for all Corps permits the permit applicant take all appropriate and practicable steps to avoid and minimize adverse impacts to waters/wetlands of the U.S. prior to proposing and implementing mitigation. This is typically called “sequencing” where the permit process requires in sequence: 1) avoidance, 2) minimization, and 3) mitigation. A common misconception held by inexperienced permit applicants is that permits can be obtained by first and directly proposing mitigation for their proposed impacts and the “quantity and type” of mitigation will “sweeten” the prospect of obtaining a permit. In actuality, the Corps requires the applicant demonstrate that avoidance and minimization measures have been fully considered and documented before moving to the mitigation phase of the permit process. Obviously, commensurate mitigation to the impacts is required for most permits and the quality/quantity of that is weighed in the permitting process, but not until avoidance and minimization measures are taken.

The Federal Rule outlines a general preference for the methods of mitigation as 1) restoration, 2) establishment or enhancement, and in certain circumstances

3) preservation. Preservation, which does not create, restore, rehabilitate, enhance, or otherwise “lift” wetland function, can only be utilized when all the following criteria are met:

- *the resources to be preserved provide important physical, chemical, or biological functions for the watershed*
- *the resources to be preserved contribute significantly to the ecological sustainability of the watershed- -preservation is determined to be appropriate and practicable -the resources are under threat of destruction or adverse modification, and -the preserved site will be permanently protected through a legal instrument.*

Where preservation is used, the Federal Rule states that “to the extent appropriate and practicable the preservation shall be done in conjunction with aquatic resource restoration, establishment, and/or enhancement activities. When this requirement is waived by the Corps District Engineer, and is therefore “preservation-only”, compensation ratios shall be higher.

Another requirement of the Federal Rule is that a watershed approach must be used to establish compensatory mitigation requirements in Corps permits. In general mitigation should be located in the same watershed as the impact site and where it is most likely to successfully replace lost functions and services taking into account such watershed scale features as aquatic habitat diversity, habitat connectivity, relationships to hydrologic sources, trends in land use, ecological benefits, and compatibility with adjacent land uses. Where watershed boundaries do not exist, such as marine areas, an appropriate spatial scale should be used rather than watershed boundaries.

A major requirement of the Federal Rule is the stated preference for the type and location of compensatory mitigation, listed as follows along with a brief characterization of each type:

- 1) *mitigation bank credits: a site or suite of sites where resources are restored, established, enhanced, and/or preserved. In general, a mitigation bank sells compensatory mitigation credits to permittees whose obligation to provide compensatory mitigation is then transferred to the mitigation bank sponsor.*
- 2) *in-lieu fee program, means a program involving the restoration, establishment, enhancement and/or preservation of resources through funds paid to a governmental or non-profit natural resource management entity. Similar to a mitigation bank, credits are sold to permittees whose obligation to provide mitigation is then*

transferred to the in-lieu fee sponsor.

3) permittee-responsible mitigation under a watershed approach: resource restoration, establishment, enhancement and/or preservation undertaken by the permittee

4) permittee-responsible mitigation through on-site and in-kind mitigation

5) permittee-responsible mitigation through off-site and/or out-of-kind mitigation

The Federal Rule then outlines the information required for submittal of proposals for mitigation banks, in-lieu fee programs, and permittee-responsible mitigation.

5.1.3 Mitigation in Southeast Alaska

Following the mitigation sequencing explained above, mitigation demonstrating restoration and enhancement is preferred over preservation mitigation. The availability of wetland restoration and enhancement opportunities on private land in Southeast Alaska is limited, and furthermore, such opportunities on public land are often encumbered with legal or administrative prohibitions or policies discouraging private investment. As such, preservation mitigation has been the primary source of mitigation found in Southeast Alaska to date.

The resources necessary to restore or enhance wetlands in Southeast Alaska, due to such factors as limited or remote access, mobilization logistics, weather constraints, and terrain, magnify the significance, and therefore the value, of those restoration and enhancement opportunities that do exist. Due to the extensive cover of wetlands in Alaska, the ability to preserve wetlands has offered a less restricting source of mitigation, however, using arguably insufficient mitigation ratios to achieve no net loss of wetlands.

A bank offering some restoration or enhancement opportunities, even if proportionally less than that provided by preservation, and considering the overall constraints to mitigation banking specific to Southeast Alaska, is given preference in the determination of credit generation ratios when a lift in functions can be achieved.

There are proposed private mitigation banks in Southeast Alaska that could provide restoration and enhancement opportunities. When avoidance and minimization have been addressed and wetland impacts remain in a proposed project, the primary mitigation option for wetlands within the CBJ remains Fee-in-Lieu until a wetland mitigation bank with a service area reaching Juneau is approved.

5.2 Best Available Science

The objective of the JWMP Update is to develop a long-range planning document that will assist public land managers and interested private landholders with practical management of their properties. The project meets this goal by providing wetland maps and wetland scores so land managers have comparative, site-specific, and function-specific information on high functioning wetlands and low functioning wetlands, indicating permitting needs for proposed wetland impacts. The WESPAK-SE assessments and mapping are also in compliance with the Federal Rule as it takes into account regional differences in wetland resources and functions and uses a watershed approach to wetland management.

The JWMP Update provides a consistent and standard scientifically informed wetland evaluation throughout the CBJ. The JWMP Update evaluates Wetland Assessment Areas in accordance with the WESPAK-SE protocol. This approach provides information to public and private developers to help guide project planning decisions and to gauge needs for more detailed wetland mapping and analysis when a specific project is proposed. The wetland inventory accomplished through this JWMP update does not provide legal wetland delineation lines, but more of a guidance tool to locate wetlands and understand their functions.

The JWMP established wetland scores in accordance with the WESPAK-SE protocol described in Chapter 2 and scores found in Volume __. As described in Chapter 2, WESPAK-SE produces 22 functions and 18 values for each wetland (or assessment area). These functions and values are important for both public and private land-use groups for planning development within CBJ. This tool allows landowners the advanced knowledge for development planning including costs for environmental review associated with sensitive or higher functioning wetlands. For example, if a private landowner were to propose a development within the CBJ, they would have access to the wetland inventory providing information about location and function and value scores of wetlands in their project area. Communication between the developer and CBJ planning department can develop around the 2016 inventory wetland information to make project decisions early on in the process. If the project is proposed in an area with high functioning wetlands, the landowner may be encouraged to find alternative building sites. Or,

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if the project area would impact lower-functioning wetlands, the landowner would be encouraged to pursue development in that area and provided with mitigation regulations applicable to any wetlands that may be impacted. The protection of high-valued wetlands is a priority named in the Juneau 2013 Comprehensive plan in Policy 7.5.

CBJ strives to protect high-valued wetlands and allow impacts, with avoidance and mitigation, to lower-valued wetlands. The value of wetlands is decided through a categorization public process that can use the WESPAK-SE scores provided in this update by assigning them into buckets or ranges. In regards to development, WESPAK-SE assessments inform what functions a wetland provides. If a proposed development were to impact a wetland assessed in this JWMP update, CBJ will have an indication of what functions need to be replaced in mitigation to achieve the Corps rule of “no net loss”. Private developers also will be able to use the mapping and WESPAK-SE assessments for initial project feasibility, saving on project costs.

5.3 Wetland Categories for Plan Implementation

Establishing wetland categories could be useful in implementing the JWMP. However, the goal of this update is to provide wetland maps and wetland scores using the WESPAK-SE assessment method. At this time, CBJ will not establish specific wetland categories that indicate high value (for example, A and B) or low value (C and D). This option may be considered at a later time before or after the JWMP is finalized. The reason CBJ has chosen not to establish categories at this stage is because categorization requires a public discussion of the relative value of different wetland functions (for example, whether or not salmon habitat or flood control/water storage has more value to society). The wetland mapping and WESPAK-SE assessments presented in the previous chapters provide the scientific knowledge of the functions wetlands provide in the CBJ; a key tool necessary for the categorization process to be successful. The process of reaching wetland categories is a collaborative process with CBJ staff, policy makers, and stakeholders to agree upon a prioritization of wetland functional values.

The CBJ is taking many factors into consideration in their decision-making process for future development that may impact wetlands, including wetland functions and the value of those functions. Functions

are what some wetlands do naturally, such as store and purify water, or provide unique habitat. Values represent the “So what?” question, and help regulators decide whether or not reducing or removing wetland functions for development will have a negative effect on people and/or ecosystems. To help in this task, CBJ has chosen to use WESPAK-SE to assess functions and values of wetlands including some of Juneau’s potential growth areas. WESPAK-SE is intended to rate functions and values of individual wetlands; for CBJ, scores generated from the functions and values assessment can be used for development-related impact analysis and mitigation planning. A variety of methods can be used to interpret WESPAK-SE scores use them to achieve “no net loss” of wetland functions and values in Juneau. Presented below are categorization methodology options to reach wetland categories using WESPAK-SE assessment function and value scores. The below section outlines options for developing a systematic approach unique to Juneau’s wetlands, and the mathematical rational for each method.

5.3.1 Options for Summarizing a Wetland’s Relative Importance

In the context of the CBJ’s Wetlands Management Plan, development decisions can be more consistent when criteria are quantified by assigned a single score or rating derived from the forty functions and values assessed by WESPAK-SE. The challenge is how to best combine wetland scores into a single score or rating. WESPAK-SE provides science and statistics for wetland analysis; these must be informed by policies or preferences of agencies and elected officials to provide the appropriate combination for meaningful rules. To date, CBJ has not adopted a detailed procedure for summarizing a wetland’s relative importance.

The process involved in taking the 22 functions and 18 values that WESPAK-SE produces for each wetland and narrowing down those numbers into an overall wetland score that can be then categorized into groups is an extensive procedure that involves public involvement. In the paragraphs below, options for summarizing a wetland’s relative importance are described. They are not exhaustive; other options may exist that are not described.

Three questions must be addressed to combine the scores into one wetland score:

1) For converting scores to ratings, should a score be

Table 4.1 WESPAK-SE assigns 22 functions and 18 values to each wetland. Below there are 4 functions and 4 values shown as an example.

Function or Attribute	Definition	Values
Water Storage & Delay	The effectiveness for storing runoff or delaying the downslope movement of surface water for long or short periods.	Flood control, maintain ecological systems
Stream Flow Support	The effectiveness for contributing water to streams during the driest part of a growing season.	Support fish and other aquatic life
Water Cooling	The effectiveness for maintaining or reducing temperature of downslope waters.	Support coldwater fish and other aquatic life
Water Warming	The effectiveness for increasing the temperature of downslope waters.	Maintain late-season ice-free conditions



Table 4.1 Question #2

Function and Value Combined Score
Water Storage & Delay
Stream Flow Support
Water Cooling
Water Warming



Table 4.2 Question #3

Wetland Score
1-10

placed in one of 3 groups (e.g., Lower, Moderate, Higher) or 4 (e.g., A, B, C, D) or some other number?

With regard to #1, an in-lieu fee program administered by Southeast Alaska Land Trust (SEAL Trust) is already proposed to federal regulatory agencies and is currently being reviewed by an Interagency Review Team (IRT) that includes a CBJ representative. SEAL Trust has proposed that WESPAK-SE scores be converted to just 3 groups, whereas the CBJ's 1996 Wetlands Management Plan assigned wetlands to four groups. Four or more groups would provide more flexibility in wetland planning decisions and complies with past practices in Juneau. Three groups may be more statistically defensible (i.e., broader confidence intervals), given the potential for some human error in applying WESPAK-SE, and has been used elsewhere in Alaska by the Alaska Conservation Trust.

To provide a visual example of the detailed options below, a portion of Table 1 in Chapter 2 has been used to demonstrate the steps required to reach an overall wetland score.

First, for each individual wetland (or assessment area) the function and value scores need to be combined. Possibly producing 22 "combined scores" for each wetland. Then, the 22 "combined scores" for each wetland function and value will need to be rolled up again to give a single wetland score.

2) For each of the wetland's functions, how can function and value scores (or ratings) be combined into one number (or rating)?

3) How can the score resulting from #2 be combined with those of other functions in order to yield an overall score (or rating) for the wetland?

With an overall wetland score, the wetland can then be placed into the previously decided categories for appropriate management.

Question #2

Option 2a: SEAL Trust has proposed that, for a given function, if the function score is higher than the value score, then only the function score can be used in subsequent calculations, whereas if (for a given function) the value score is equal or higher than the function score, then the average of the two be used in the calculations that will follow. We shall call this option 2a.

Option 2b is the same but the ratings associated with a function or value -- rather than the scores themselves -- are used to judge when to use the function score or an average of function and value scores.

Option 2c would simply average the function and value score, regardless of which was higher. The resultant score would be called the FVaverage score.

Option 2d would use the greater of the function score and value score. The resultant score would be called the FVmax score.

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Under all options, the function and value scores would be normalized before being evaluated or combined.

Options 2a and 2b give more recognition to the possibility that some wetlands which currently score high for function but low for value might become more valuable in the future even though being less valuable now. For example, a wetland that is high-functioning now for Anadromous Fish Habitat may have a low Value score (according to WESPAK-SE) because it is not in one of Southeast Alaska's priority watersheds for salmon (as indicated by the TNC-Audubon 2007 Conservation Assessment). Simply averaging Function and Value (2c) might give it a Moderate score, which may be acceptable if the policy is to highlight only a wetland's current importance.

Question #3

Option 3a: SEAL Trust is proposing to first combine the scores resulting from Option 2a into six thematic groups, then combine the scores of those groups into an overall score. At both levels of combining, SEAL Trust adds the average of the scores with the maximum of the scores and divides by 2. Under the SEAL Trust proposal, membership of the thematic groups would be as follows:

Water Quality: *Sediment Retention, Phosphorus Retention, Nitrate Removal, Carbon Sequestration*

Hydrologic: *Water Storage*

Aquatic Support: *Organic Nutrient Export, Stream Flow Support, Water Cooling, Water Warming, Aquatic Invertebrate Habitat*

Fish Habitat: *Anadromous Fish Habitat, Resident Fish Habitat*

Other Aquatic Habitat: *Amphibian Habitat, Waterbird Feeding Habitat, Waterbird Nesting Habitat*

Terrestrial Habitat: *Native Plant Habitat, Pollinator Habitat; Songbird, Raptor, & Mammal Habitat*

Social: *Subsistence, Public Use & Recognition*

Furthermore, under the SEAL Trust proposal, the score for Social would be used in calculations only if it does not lower a wetland's overall score. The CBJ could suspend that rule, use a smaller or larger number of groups, and/or constitute the groups differently. The SEAL Trust groupings would only be applied to non-tidal wetlands; WESPAK-SE assesses fewer functions for tidal wetlands and therefore SEAL Trust determined that grouping those function scores

prior to roll-up was unnecessary.

Option 3b would, for the combining process, simply take the average rather than the average + maximum divided by 2.

Option 3c would instead use only a wetland's highest score to represent that wetland; its other scores would be ignored.

Option 3d would be similar, but not just any highest score would be used to represent the wetland: only if Anadromous Fish Habitat was the highest would that trump all other functions.

Option 3e would require someone assigning a weight to each of the 18 functions based on policy considerations and-or public input, and then using a weighted average to represent the wetland.

Under all options, the combined scores would be normalized before being evaluated or combined further.

5.4 Plan Implementation Options

If categories are needed for the implementation of JWMP, once they are agreed upon and established, the Juneau Wetland Management Plan can be implemented through different options presented in this chapter. Since the first plan, written in 1993, CBJ's management strategy has involved the use of a General Permit from the Corps of Engineers. This implementation chapter examines the successes and issues with wetland management in the past and proposes three options for future wetland management implementation in Juneau. Regional examples of wetland management are cited and compared for reference. The three options are 1) use the wetlands management plan as a planning and educational tool, 2) update enforceable policies and CBJ Land Use Code to reflect 1997 management strategy and apply for a General Permit from the Corps of Engineers, 3) update the enforceable policies and CBJ Land Use Code to still involve CBJ through local wetland policies.

Option 1: Planning and Education Tool Only

This option reflects the current status of wetland permitting in CBJ. Since the expiration of CBJ's General Permit in 2011, wetland permitting has been managed by the Corps for all categories of wetlands. The Wetland Review Board is currently fulfilling an advisory role; in this capacity it could continue to function as an advisory body to the Planning Commission and to the Director of the Community

Development on wetlands issues. Advisory functions would also include comments on wetland permit applications administered by the Corps, protection for stream side riparian areas, and any effects that CBJ, state, or federal projects may have on wetlands and streams. This option could involve the continued advisory role of the Board. CBJ could still comment on wetland fill permit applications through the Corps public process, but would not be involved in administering any wetland fill permits.

The detailed and extensive wetland mapping and WESPAK-SE assessments offer a science-based product that provides the JWMP an educational tool and guiding principles for wetland management. This tool is compliant with the Federal Rule as it takes into account regional differences in wetland resources and functions and, as much as possible, uses a watershed approach to wetland management. An example of this type of implementation can be found in the Matanuska-Susitna Borough Wetlands Management Plan (HDR, 2012). The purpose of the Matanuska-Susitna (Mat-Su) document is stated as:

This plan serves primarily as an educational tool and promotes coordination among all entities involved in wetland management. This plan does not propose or include any new regulations or permitting requirements. It encourages voluntary practices to conserve and protect wetland resources within the Mat-Su.

In addition to wetland and watershed mapping, the Matanuska-Susitna Borough (MSB) Assembly passed several ordinances related to wetlands conservation and protection. Topics of these ordinances include flood control, shoreline setbacks, BMPs for development, mitigation banking, and watershed classifications.

The overarching goals of wetlands planning in the MSB Wetlands Management Plan involves taking a long-term management approach using three main goals; identify, assess, and protect. The Mat-Su Borough encompasses a much larger area than the CBJ. The goal is to identify wetlands at a planning scale of information and involves determining size, boundary and type of wetlands. Assessing wetlands for MSB involves developing their own functional assessment methodology. Lastly, implementing conservation and protection efforts includes the input of an advisory committee for avoiding, minimizing or compensating impacts onsite, participating in an in-lieu fee program, and creating wetland banks.

These goals of MSB's wetland management provide a regional example to CBJ of how the JWMP can be used as a planning and educational tool. CBJ has many advantages due to the size of the borough and their accessibility and agreement to use a South-east Alaskan wetland assessment tool, WESPAK-SE. The recent mapping produced in this update should not limit CBJ's ability to acquire updated wetland and habitat mapping in the future. The current mapping and assessments provide a snapshot of the landscape and, with a dynamically changing environment, should continue to be updated in future efforts. The mapping and WESPAK-SE assessments allows for informed decision-making for wetland conservation and protection, and regulation. The Corps of Engineers has expressed its support of the WESPAK-SE tool and CBJ has seen potential for its use in growth management planning.

There are many incentives for using the JWMP update as an education and planning tool only. One is that the plan is a useful tool to all stakeholders as a source for best available science. As a best available science document, the JWMP plays a valuable role in planning for future development by all entities involved in wetland management. The JWMP therefore is least influenced by political pressures, yet serves as a tool for future planning regarding community and borough priorities and values. In this option, wetland categories (such as A, B, C, D or High, Moderate, Low) are not necessary to complete the JWMP update. If so desired, the public process of creating categories from WESPAK-SE can be done as a next step to wetland management and land planning in Juneau.

There are some limitations to this option for JWMP update. Since the past JWMP has included enforceable policies and, until 2011, the administration of wetland fill permits for lower quality wetlands, using the JWMP only as best available science and not assigning any regulatory authority to its contents may be interpreted as a step backward in wetland management by some stakeholders. This option would maintain CBJ as a stakeholder and commenter on proposed wetland fill permits issued by the Corps and would not reinstate any authority over wetland permits. The only remaining authority with CBJ would be in the scenario of CBJ as an applicant or landowner for a proposed project. CBJ would then be able to act as more than a commenter of the project application and would be involved in other local codes that apply to

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the proposed project. Applicants may have found clarity and consistency from the CBJ's past involvement in wetland permitting. This may be lost in relinquishing authority to the Corps for all types of wetland fill. However, with the previous update of the JWMP seven years ago, and the expiration of the general permits almost five years ago, the current situation has likely become familiar as the status quo.

Option 2: General Permit

This option would maintain, or reauthorize, the wetland management process described in the 2008 JWMP. In the 2008 JWMP a Plan Implementation section summarizes the approach the plan takes and is provided below. The language would match much of what is named below and in the existing JWMP or would be amended through the current update.

"On June 30, 1995, the Corps of Engineers issued General Permit 92-1 for wetlands that are classified as Category C, D, and EP in the Revised Juneau Wetlands Management Plan. On July 24, 2000, the Corps of Engineers issues four General Permits (2000-01, -02, -03 and -04) that replaced 92-1. On May 24, 2006, three of the General Permits (GP) were renewed: GP 2000-01, -02, -03. GP 2000-04 was not renewed due to lack of use. The General Permits authorize the discharge of fill material into wetlands, for the purpose of creating foundation pads for structures, utilities, associated roads, driveways, parking areas, and other domestic, governmental, and commercial development, as well as enhancement of certain environmental situations. These GPs authorize mechanized land clearing and other activities that could result in a re-deposition of fill material. Copies of both original and the new General Permits are included in Appendix II-F.

The Corps of Engineers has authorized the CBJ Wetlands Review Board to administer the General Permit through the permitting process outlined in this plan. The Board has the authority to issue wetland permits locally for the discharge of dredged or fill material in these lower value and enhancement wetlands (Category C, D and EP) for the purposes listed in the General Permit. The Board will issue permits in compliance with the enforceable policies of this plan and the specific and general conditions included in the General Permit.

For the Category C, D and EP wetlands, the CBJ has become a 'one-stop' wetlands permitting agency, greatly reducing permit processing time. No individual permit from the Corps of Engineers, consistency determination from the Alaska Department of Natural Resources, Office of Project Management and Permitting, nor individual water quality certification ("401 certification") from the Alaska Department of

Environmental Conservation, is required for development in these wetlands. However, other local, State and federal permits may be needed for the project and it is the responsibility of the applicant to obtain all required permits.

For development proposals in Category A and B wetlands, and for any wetlands that are not within the Juneau Wetlands Management Plan study area or are not classified under the plan, a permit must still be obtained from the Corps of Engineers. The enforceable policies of the wetlands plan will be applied when those permit applications are reviewed by the Corps of Engineers."

The wetland categories mentioned in an earlier section of this chapter would need to be updated with the chosen categorization method. This option will require agreement between Corps and CBJ on what constitutes "lower" and "higher" functioning wetlands through the established categorization system.

A regional example of this method is the Anchorage Wetland Management Plan (AWMP, 2014). Anchorage currently has General Permits issued to the municipality for lower valued wetlands, just as Juneau used to have. Using General Permits in wetland regulation requires agreed upon wetland categories for the Corp and CBJ to then name which agency will be in charge of issuing wetland permits for each category of wetland. Since WESPAK-SE is a wetland assessment tool designed for the Southeast Alaska region, Anchorage has created it's own wetland assessment methodology, Anchorage Wetlands Assessment Methodology (AWAM) as well as a credit-debit method for mitigation, Anchorage Debit-Credit Method (ACDM). Anchorage wetland assessment methodology came up with three categories of wetland, A, B, and C. The Corp issued General Permits for Anchorage to administer wetland fill permits for category C wetlands.

The Federal Rule (33 CFR Part 332) on Compensatory Mitigation for Losses of Aquatic Resources issued April 10, 2008, establishes an order of preference for mitigation options, as follows: 1) mitigation banks, 2) in-lieu fee programs, 3) permittee-responsible mitigation, and furthermore establishes an order of preference to mitigation approaches: 1) restoration, 2) enhancement, 3) preservation (in certain circumstances). All mitigation types and approaches are specified to use a watershed approach and it recognizes and encourages accounting of "regional characteristics of aquatic resource types, functions and services." (332.1.e) The AWMP uses a watershed approach and accounts for regional characteristics in compliance

with the Federal Rule. It also established procedures to determine debits and credits for impacts/mitigation regardless of whether it's a mitigation bank, in-lieu fee program or permittee-responsible mitigation. The AWMP fits with a General Permit because it also identifies the higher functioning and lower functioning wetlands, allowing impacts to lower quality wetlands and offering more protection for the higher quality wetlands. While it discusses the Federal Rule, the AWMP does not emphasize the specifics of it, especially the order of preference of banks first, in-lieu fee programs second, and permittee-responsible approaches third.

It is important to note that the AWMP only acknowledges mitigation banking and in-lieu fee programs as tools for wetland preservation, when in fact the Federal Rule, as noted above, prioritizes mitigation banks and lists preservation as a last priority for mitigation type. The one bank the AWMP plan mentions is the Mat-Su bank which is primarily a preservation-only bank. For parts of Alaska, wetland restoration and enhancement opportunities have been difficult to find and successfully implement. Preservation has instead been the focus. The preservation-only approach, arguably does not meet the no-net-loss standard of the Clean Water Act (the foundation of the Federal Rule) because preservation does not restore or enhance wetland functions. Thus, when wetland impacts occur, no corresponding increase in function is provided to off-set the impact, only preservation of land already un-developed. While the AWMP generally is consistent with the Federal Rule approach, the lack of restoration and enhancement opportunities has made the mitigation approach focus mostly on preservation-only, which in the Federal Rule is the last approach in the order of preference.

Renewing and continuing to manage CBJ wetlands with general permits provides some incentives to consider. This method inherently directs future wetland impacts toward lower functioning wetlands as it keeps wetland permitting at the local level for lower category wetlands. For applicants applying to impact lower category wetlands, this process should provide some certainty in acquiring a wetland permit and expedite their permitting process at the local level. Using the general permit options for wetlands management could transfer wetland delineation and determination authority to CBJ in some cases and will be beneficial to CBJ's own development planning services.

Some drawbacks of this management option center

around the need to renew the general permit every five years. The initial acquisition of the general permits and the renewal process requires Corps approval which may come with uncertainty and additional expenses. Once the general permits are approved, CBJ will need to have an established administrative and technical review for wetland impact assessment and mitigation. Additional updating of the CBJ code would also be necessary, which adds time and expenses to the process. CBJ would be required to write a new set of regulation or revise existing codes for the applicable wetlands, most likely incorporating a local political process, again adding time and cost.

Option 3: Local Code

This option involves the CBJ expanding current code for all wetlands of all categories within the borough and requires project applicants to adhere to CBJ code provisions (such as avoidance criteria and mitigation) while maintaining the Corps' administration of wetland fill permits. This example can be found in Washington and Oregon where local governments can adopt ordinances related to land use and critical area impacts. In Washington State, cities and counties are given this authority through the Growth Management Act (Chapter 36.70A RCW). Juneau is given this authority through the Alaska Coastal Management Program (ACMP) 11 AAC 110, 112, and 114. Critical areas regulated under local code can include geologically hazardous areas, frequently flooded areas, critical aquifer recharge areas, wetlands, and fish and wildlife habitat conservation areas.

Without a General Permit from the Corps, CBJ would not have primary control over issuing wetland permits and a Corps permit would still be required in all cases. However, similar to some of the code in place now, applicants would be required to submit an application to the CBJ that included approval of, or proof they are seeking, a wetland fill permit from the Corps. The application would also include reports along with their site plan such as, but not limited to, a habitat assessment, wetlands delineation report, wetland mitigation plan, and stormwater plan. There are many examples of this code language and application in Washington State and Oregon cities and counties.

In an attempt to find code from a similar landscape area of a municipality encompassing similar landscape characteristics and population size as Juneau, code was reviewed from City of Bellingham, Port Angeles, and City of Longview in Washington State. If this

option is chosen in the final draft of the JWMP, CBJ would analyze more code examples and templates for CBJs code update in accordance with the ACMP. There are restrictions in the ACMP in regard to local jurisdiction of wetlands that will need to be considered when developing local code for critical areas and their mitigation without a general permit from the Corps.

CBJ jurisdiction would not be limited to the wetlands mapped in the inventory completed between 2014-2015; instead, it would apply to all lands within CBJ, both public and private. Wetland mapping completed for the JWMP update would serve as a reference tool for general wetland locations, types, and extents within the CBJ. Site analysis for wetlands would still be required prior to site development; wetlands located by this analysis would require formal delineation, categorization, and subsequent local and federal regulation. In short, all wetlands in CBJ are designated in accordance with the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Alaska Region (Version 2.0), U.S. Army Corps of Engineers, 2007. Further steps would be to adopt wetland management policies and codes for the category of wetlands, mitigation standards, etc.

Local jurisdictions often adopt the Corps mitigation sequencing within their state, county, or municipal mitigation codes. Requiring wetland buffers of varying widths according to wetland category and proposed land-use intensity is another method that can be employed to further refine mitigation sequencing. Some jurisdictions define specific buffer mitigation ratios; others state allowed uses within wetland buffer areas or address variables such as buffer width averaging and reduction. Each local jurisdiction has the authority to develop and regulate buffers, or omit them. Similarly, CBJ has the opportunity in the JWMP update to refine wetland protection standards and subsequent mitigation requirements in ways that promote development in Juneau's unique environment without compromising the federal standard of no net loss of wetland area.

Incentives provided to CBJ by this option include:

- 1) CBJ retains an active role in local wetland management and mitigation requirements, 2) creates a favorable setting for private mitigation providers, 3) addresses public concerns regarding environmental conditions of the borough, and 4) has the potential to streamline wetland impacts permitting and subsequent compensatory mitigation through a local (rather than regional) lead agency review process.

Drawbacks of this approach include the possibility of initial inefficiencies regarding code adoption. As mentioned above, resources and examples from other jurisdictions in other states may prove to be useful as templates or general guidelines, but these examples notwithstanding, any new codification process would most likely be time consuming. Ultimately, adopting local code creates a more refined regulatory process. This could be interpreted as an incentive for protecting public environmental interests, as well as a drawback for developers (local and non-local) for whom additional regulatory processes would result in longer time commitments for project approval and potential duplication of efforts when requesting permits from both CBJ and the Corps.

5.5 Summary

The implementation strategy for the JWMP 2016 update is an important decision that will shape future wetland management in Juneau. Three options have been proposed in this chapter for the consideration of CBJ staff, Planning Commission, Wetland Review Board, and Assembly Members. These three options do not represent the only options available to CBJ, and they do not have to act as stand-alone scenarios. Portions of one option can be incorporated with others where necessary. In summary, the three options are:

- 1) Planning and Educational Tool Only
- 2) General Permit
- 3) Local Code

Local and regional examples of each type of management have been provided as guidance for decisions that shape the JWMP update and its contents. This background information and scenario presentation has been provided in the draft JWMP report to further inform decisions for the final JWMP and future wetland management in CBJ.

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Juneau Wetland Management Plan Update

Final Report • Volume 2

Maps, photos & scores by Assessment Area

DRAFT

for:
***Community Development
Department, City & Borough of Juneau,
Alaska***

***Bosworth Botanical Consulting
with:
Adamus Resource Assessment
Ecological Land Services
Catherine Pohl Biological Consulting
Discovery Southeast***

September, 2015

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Cover: View northwest over Peterson Creek parkland to Amalga Harbor, September, 2015. Eagle River delta in left distance. We assessed forested and floodplain wetlands, fen/marsh, and uplifted wetlands in this area.

This contract was funded by the Coastal Impact Assistance Program through the Alaska Dept of Commerce, Community and Economic Development as part of Grant #10-CIAP- 0009, "Habitat Mapping and Analysis Project."

1.0 INTRODUCTION TO VOLUME 2

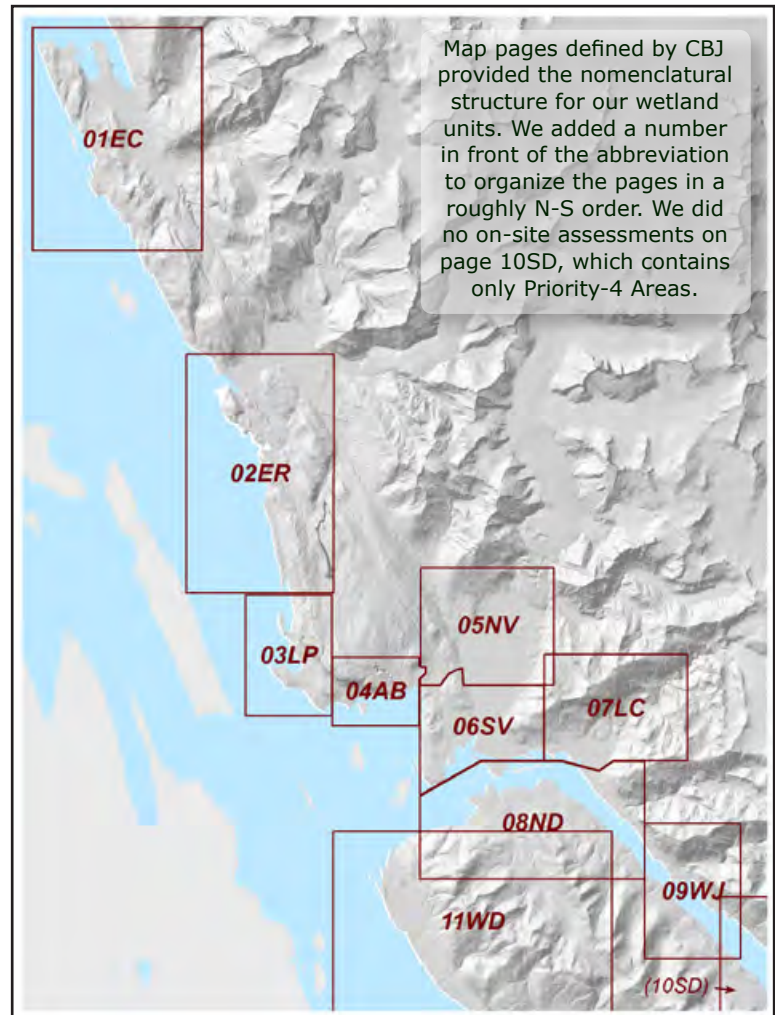
Volume 1 of the Juneau Wetlands Management Plan Update provides an overview of the project, including methods, summary tables, study highlights, and implementation plan. In Volume 2, we give detailed scores, maps and on-site photos for each Assessment Area (AA) unit.

Non-tidal AAs—the large majority of wetlands surveyed—are arranged in Section 2.0 by Map Page. These are subdivisions of the road-accessible CBJ. From north to south:

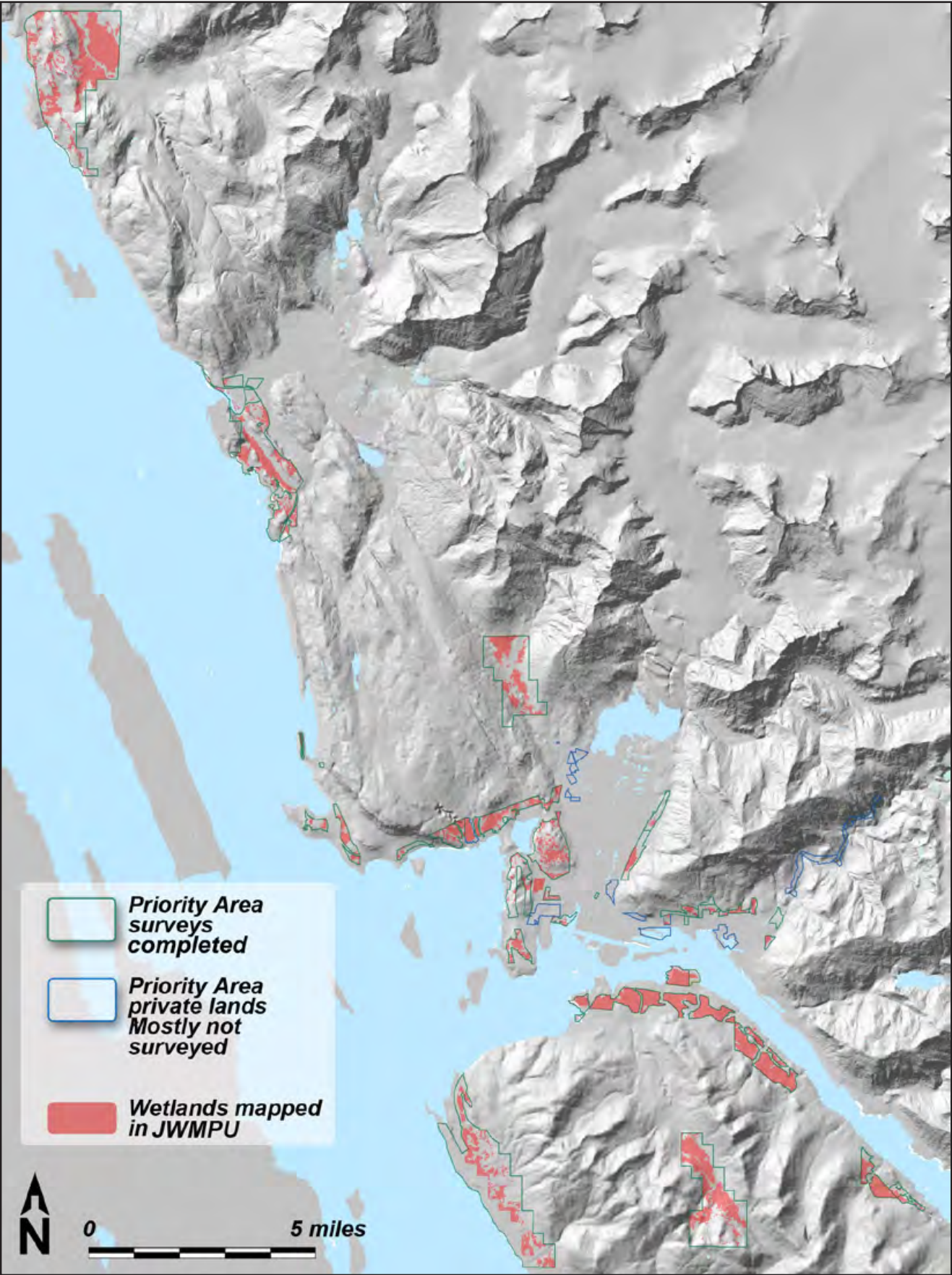
- Echo Cove (01EC)
- Eagle River (02ER)
- Lena Point (03LP)
- Auke Bay (04AB)
- North Valley (05NV)
- South Valley (06SV)
- Lemon Creek (07LC)
- North Douglas (08ND)
- West Juneau (09WJ)
- West Douglas (11WD)

Areas within CBJ's map page 10, South Douglas Island (10SD), were assigned lower priority for field efforts so were not included in the surveys. Off-site evaluations were conducted here, as described in Section 4.0

Only a few tidal AAs were surveyed. These are described in Section 3.0



Notice to reviewers of the draft: In formatting this version of the report some errors were noted in fish scores. These are highlighted in red font, below, and will be corrected in future drafts. At this late stage in draft submission, tables cannot be recalculated.



2.0 SCORES BY AA: NON-TIDAL WETLANDS

The 332 non-tidal wetland AAs characterized in this section are presented roughly from north to south according to Map Page. The basis for separating the AA from other AAs is denoted by its wetland type, or WESPAK-SE classification, defined in the table on right).

Normalized scores for functions and values of the AA are shown in tables. A score of 10 indicates the AA is believed to have greater capacity to perform the function than the other 331 non-tidal AAs. A score of 0 indicates it's believed to have less capacity for performing the function than any of the other 331 non-tidal AAs (but tied scores are allowed).

For two functions—Anadromous Fish Habitat and Resident Fish Habitat—a score of 0 means the wetland does not provide that function, due to lack of fish access and known presence. However, for other functions, a score of 0 does not mean the function is literally absent from the AA—only that the AA scored lower than any other AA we surveyed. Scores have not been calibrated to actual measurements of functions because cost and time requirements of doing so are prohibitive.

For any function or value, if one score changes it can shift all the normalized scores of the others, as explained in Volume 1, Section 2.3.3.

In each AA's score table, the functions or other attributes are listed from highest-to-lowest function score. That way, readers can see for which functions each AA is likely to be most effective. A high number in the Value Score column indicates that, because of reasons such as where the AA is located, the function is likely to be valued more highly, currently or in the future.

Consistent with WESPAK-SE, no value scores are assigned to Carbon Sequestration or Organic Nutrient Export. Although those functions are important, their benefits are expressed globally or at a broad scale. It's difficult to assign value based on local factors.

Wetland Type	Definition
Forested Peatland fw	Nearly all the AA is moss-covered and/or with peat or muck soils to a depth of at least 4 inches, sometimes greater if not rocky. More tall (>3 ft) woody cover than herbaceous. Trees often hemlock or cedar. Often with skunk cabbage (at least in seasonal channels), blueberries. Little or no open water. Includes shrub fringes of open peatlands and fens. Not in active floodplain.
Open Peatland op	Nearly all the AA is moss-covered. Peat depth usually >16 inches except where bedrock near surface. Tree cover is <5% and cover of tall (>3 ft) shrubs is <30%. Shore pine, Labrador tea, crowberry often occur. Often with small (<25 sq ft) scattered stair-step pools with acidic, stained water. Some examples are flat bogs, floating bogs, and sloping muskeg.
Fen/ Marsh fm	Often with extensive surface water, at least seasonally. Usually with more emergent than tall (>3 ft) woody plant cover. Often sedges, deer cabbage, marsh marigold, horsetail, burreed, pond lily. If ground is moss-covered, the moss often is mostly obscured by sedges or other herbaceous plants. Soils often muck or peat, seldom coarse unless created by excavation. Often beaver-created, or at base of steep slopes, or in depressions or adjoining larger water bodies.
Floodplain Wetland fl	At least once annually, surface water in a channel that flows through or adjoins the AA causes the width of surface water in the AA (perpendicular to the channel) to more than double. The increased width is due mainly to that channel inflow, not to hillslope seepage or runoff. Soils are silt or coarser (little or no organic soil or peat). Vegetation can be woody or herbaceous: often alder, willow, devil's club.
Uplift Meadow um	Within a few miles of tidewater or a glacier, but nontidal, and mostly within 100 miles of Glacier Bay National Park. Little or no persistent surface water except in channels, which may be strongly downcut. Mostly sweetgale and/or herbaceous vegetation, e.g., silverweed, iris, Lyngbye's sedge. Tree cover usually <30%. Peat depth usually <16 inches. Resulted from uplift following isostatic rebound as a glacier receded within recent centuries.
Beaver Influenced bi	Active or recent beaver activity has altered the water regime and vegetation. These wetlands are typically episodic, with periods of flood-induced tree mortality alternating with periods of de-watering and vegetation recovery.
Tidal Wetland td	Inundated by tide at least once annually and dominated by emergent herbaceous or woody plants. The level of surface water fluctuates every ~6 hours on a daily basis in response to tides. Does not include areas of beachgrass (<i>Leymus</i> or <i>Elymus mollis</i> , also called ryegrass) unless they are inundated at that frequency. Does not include areas that are entirely eelgrass or seaweeds.

Definitions of wetland types used in this survey.

In the following AA bullet lists, for **boundary criteria**, rationales for separating the AA unit are given. Here they're listed in order from most to least frequently applied:

- **wetland-upland boundary (w-u)** The AA borders non-wetland habitat. These borders were all mapped in the field with GPS units capable of sub-meter resolution.

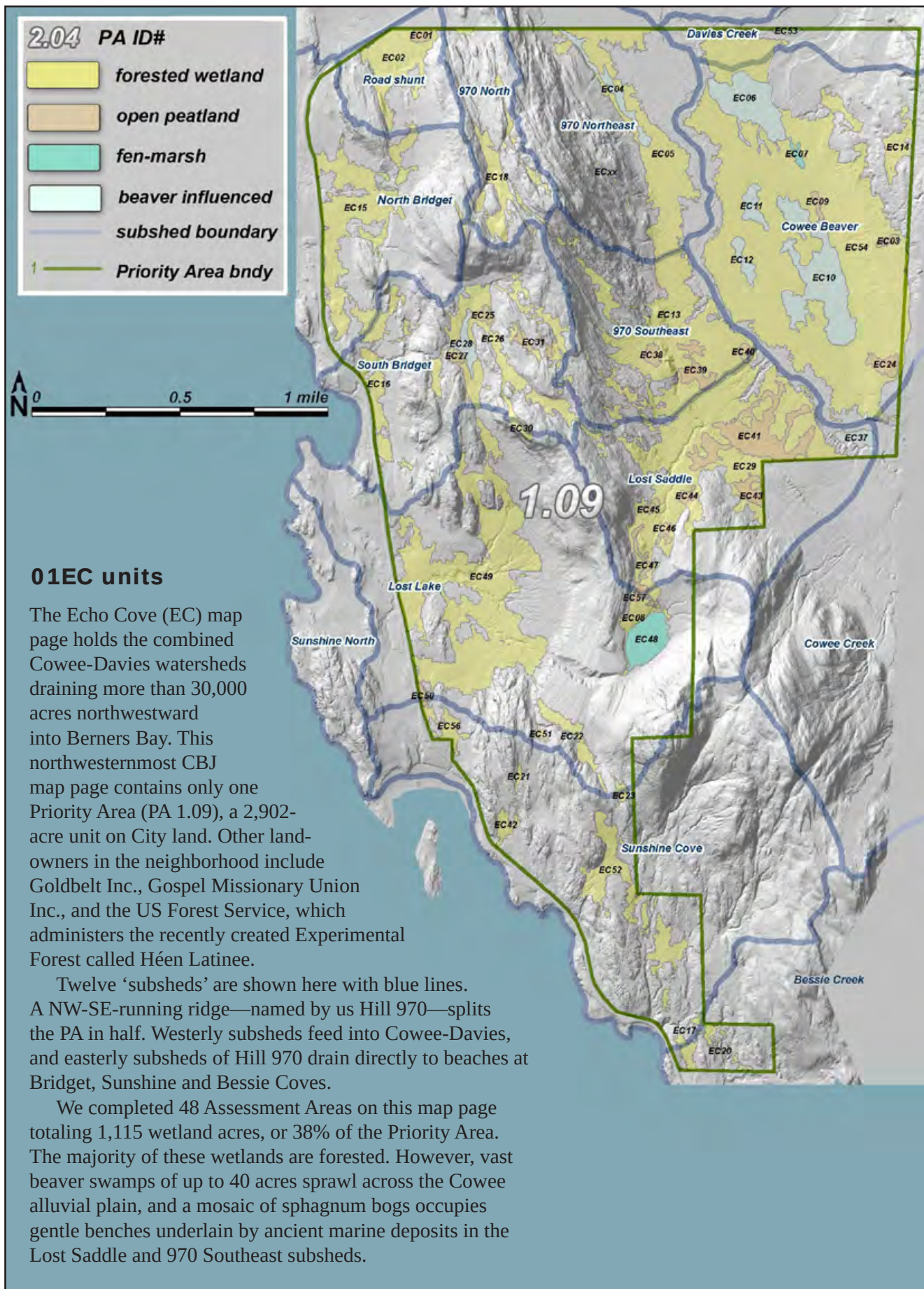
- **wetland type (type)** The AA borders another of a different wetland type. These borders were mapped from imagery, on computers using Geographic Information System software (ESRI ArcMap) with aerial photography and LiDAR-based vegetation height and terrain elevation data layers.

- **priority area (pa)** The AA continues to the edge of a Priority Area boundary (often beyond), which defines the aa boundary.

- **subshed (subsh)** The AA splits from another of like wetland type along a "subshed" boundary, as defined in Volume 1, Section 2.2.¹

If AAs are more than 200 feet from others of like type, they're assigned different unit numbers.

¹ Other unit-separation criteria were considered in the first phases of the project, but ultimately rejected: • **channel** The AA is separated from another of like type by a substantial (generally entrenched) stream or river. • **road** The AA is separated from another of like type by a road that alters surface water amount, frequency, or seasonal timing, or which due to lack of culverts, has the capacity to do so.

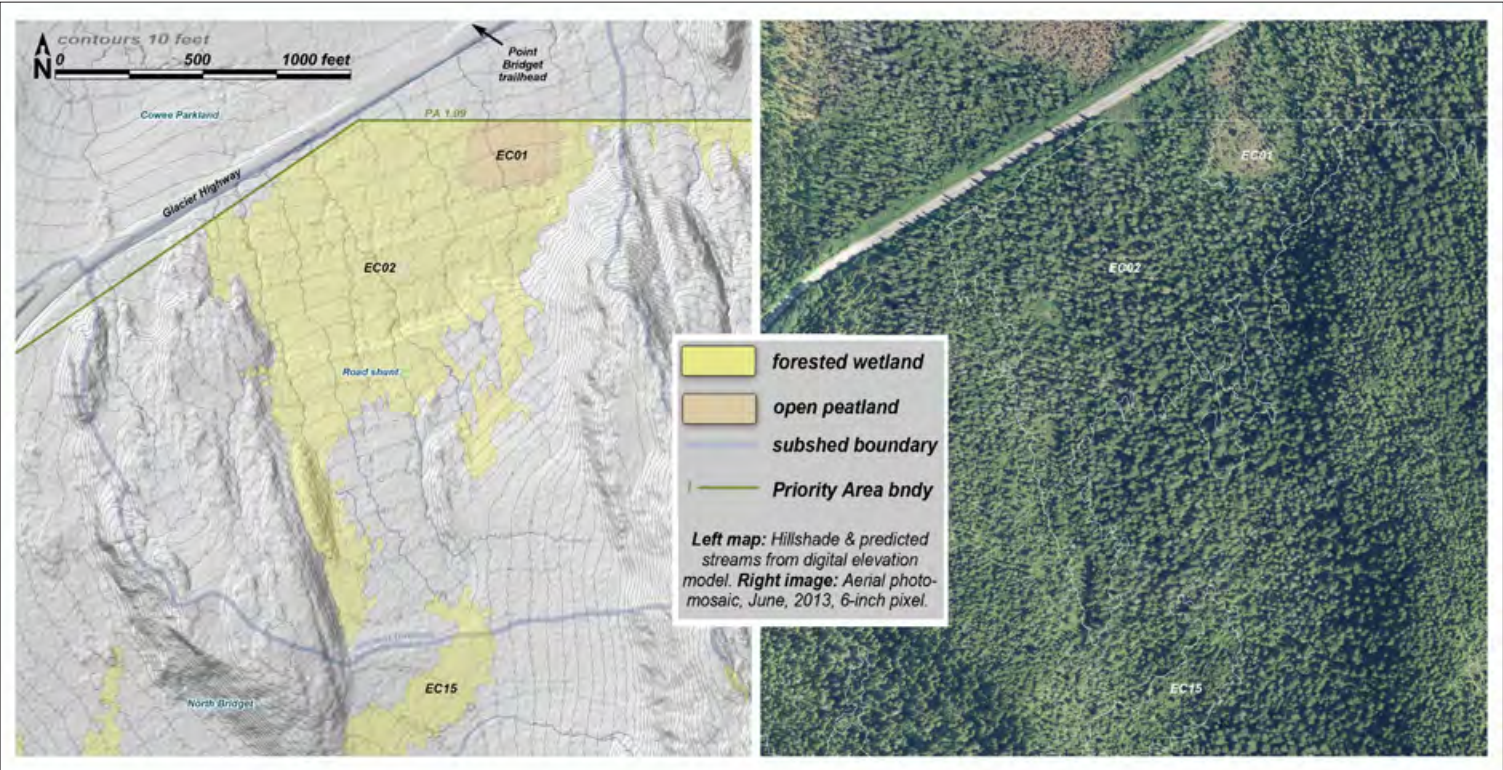




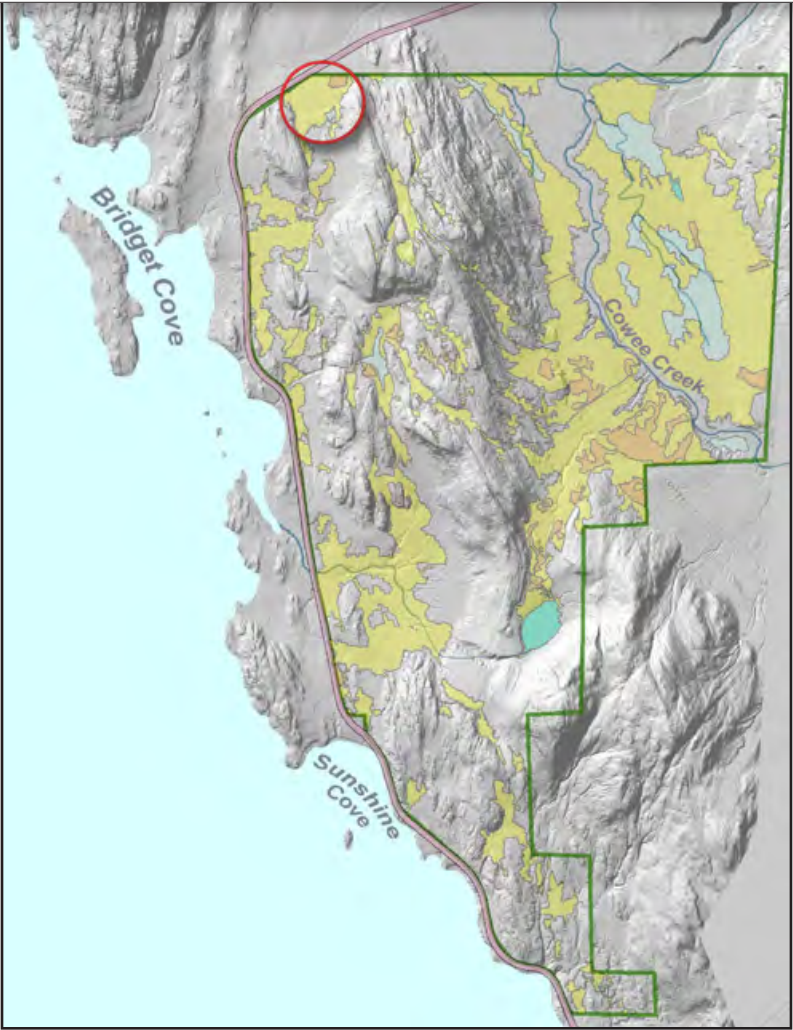
EC01 • **type:** open peatland • **acres:** 1.9 • **boundary criteria:** type, pa • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.75	Higher	5.36	Moderate
Stream Flow Support	6.55	Higher	1.78	Moderate
Amphibian Habitat	5.34	Higher	5.90	Moderate
Carbon Sequestration	6.71	Higher	N.A.	N.A.
Water Warming	3.82	Moderate	7.80	Higher
Pollinator Habitat	6.01	Moderate	4.21	Moderate
Waterbird Nesting Habitat	4.08	Moderate	9.40	Moderate
Waterbird Feeding Habitat	4.07	Moderate	3.21	Moderate
Water Cooling	3.86	Moderate	3.68	Moderate
Native Plant Habitat	3.50	Moderate	2.52	Moderate
Water Storage	4.56	Moderate	1.11	Lower
Organic Nutrient Export	7.35	Moderate	N.A.	N.A.
Invertebrate Habitat	2.77	Lower	1.97	Lower
Phosphorus Retention	2.52	Lower	2.52	Lower
Sediment Retention & Stabilization	2.19	Lower	0.52	Lower
Nitrate Removal	0.73	Lower	1.52	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	8.15	Higher
Wetland Risk	N.A.	N.A.	7.05	Higher
Wetland Stressors	N.A.	N.A.	5.86	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.53	Lower

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Unit maps for EC01 & 02





EC02 • **type:** forested peatland • **acres:** 27.0 • **boundary criteria:** w-u, type, pa •
pin: 3B4501000010 • no known or probable anadromous fish

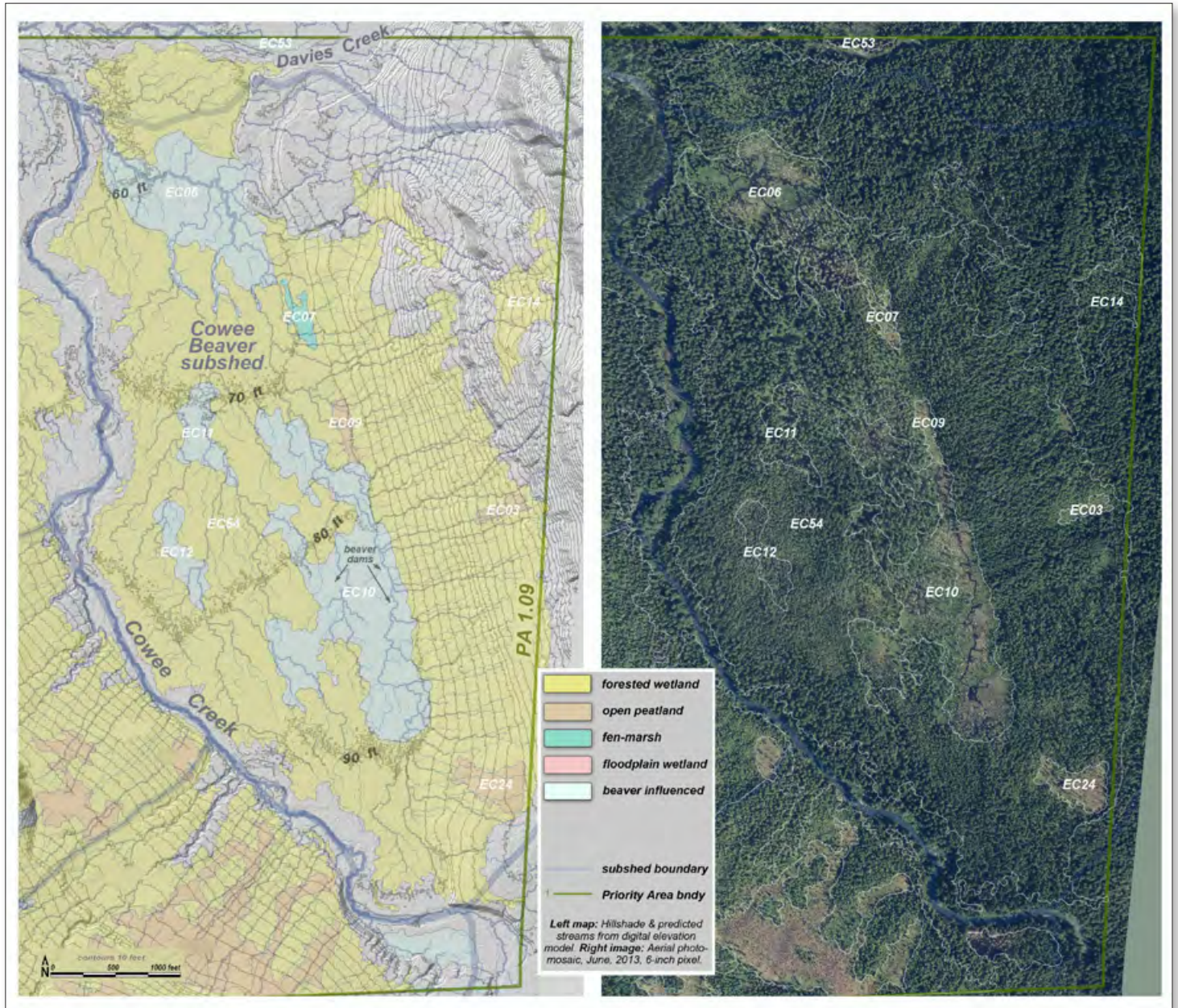
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.41	Higher	4.43	Moderate
Songbird, Raptor, & Mammal Habitat	7.76	Higher	5.52	Moderate
Amphibian Habitat	5.29	Higher	5.40	Moderate
Organic Nutrient Export	8.04	Higher	N.A.	N.A.
Carbon Sequestration	6.65	Higher	N.A.	N.A.
Native Plant Habitat	4.40	Moderate	2.88	Moderate
Water Warming	4.33	Moderate	3.12	Moderate
Water Storage	4.25	Moderate	1.11	Lower
Water Cooling	3.54	Moderate	1.47	Lower
Waterbird Feeding Habitat	3.32	Moderate	0.00	Lower
Sediment Retention & Stabilization	2.41	Moderate	0.43	Lower
Stream Flow Support	3.15	Lower	1.78	Moderate
Invertebrate Habitat	2.78	Lower	1.30	Lower
Phosphorus Retention	1.96	Lower	1.96	Lower
Nitrate Removal	1.78	Lower	1.26	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	8.33	Higher
Wetland Risk	N.A.	N.A.	7.99	Higher
Wetland Stressors	N.A.	N.A.	6.66	Moderate
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Public Use & Recognition	N.A.	N.A.	1.31	Lower

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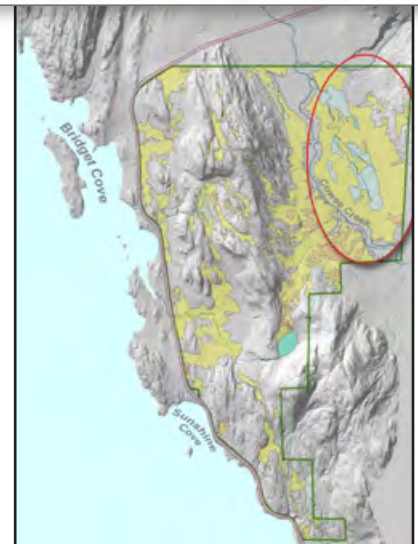


EC03 • **type:** open peat-land • **acres:** 1.1 • **boundary criteria:** type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.09	Higher	5.36	Moderate
Pollinator Habitat	7.84	Higher	4.21	Moderate
Native Plant Habitat	6.24	Higher	2.52	Moderate
Amphibian Habitat	5.44	Higher	6.29	Moderate
Water Warming	5.38	Higher	2.52	Lower
Organic Nutrient Export	7.74	Higher	N.A.	N.A.
Stream Flow Support	4.24	Moderate	1.83	Moderate
Water Cooling	5.30	Moderate	1.26	Lower
Waterbird Feeding Habitat	4.22	Moderate	0.00	Lower
Water Storage	2.98	Moderate	1.11	Lower
Carbon Sequestration	5.61	Moderate	N.A.	N.A.
Invertebrate Habitat	3.00	Lower	1.49	Lower
Phosphorus Retention	1.70	Lower	1.70	Lower
Nitrate Removal	1.48	Lower	2.27	Lower
Sediment Retention & Stabilization	1.48	Lower	0.45	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	8.83	Higher
Wetland Risk	N.A.	N.A.	4.18	Moderate
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Wetland Stressors	N.A.	N.A.	2.86	Lower
Public Use & Recognition	N.A.	N.A.	1.39	Lower



Unit maps for EC03 06 07 09 10 11 12 14 24 53 54

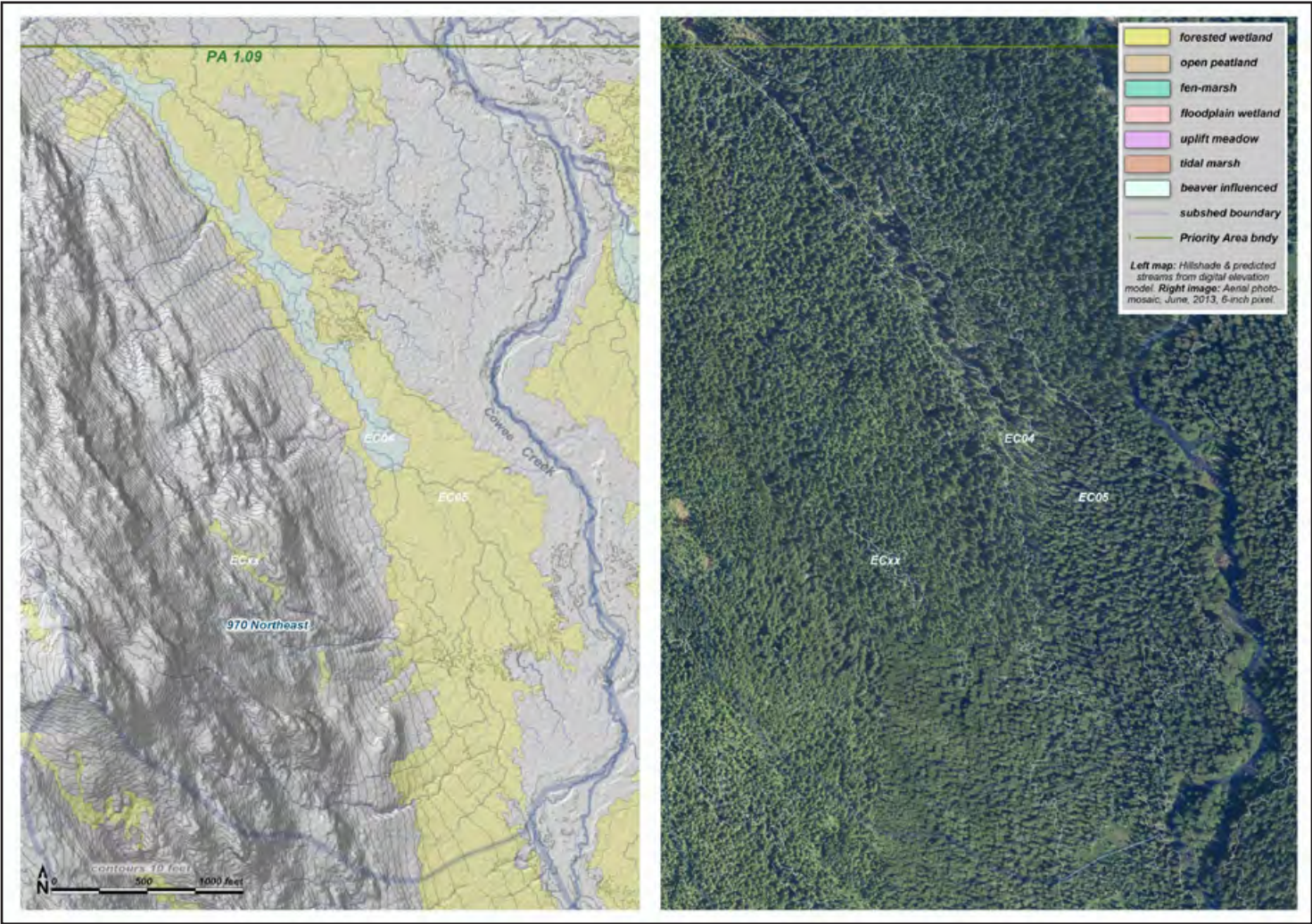


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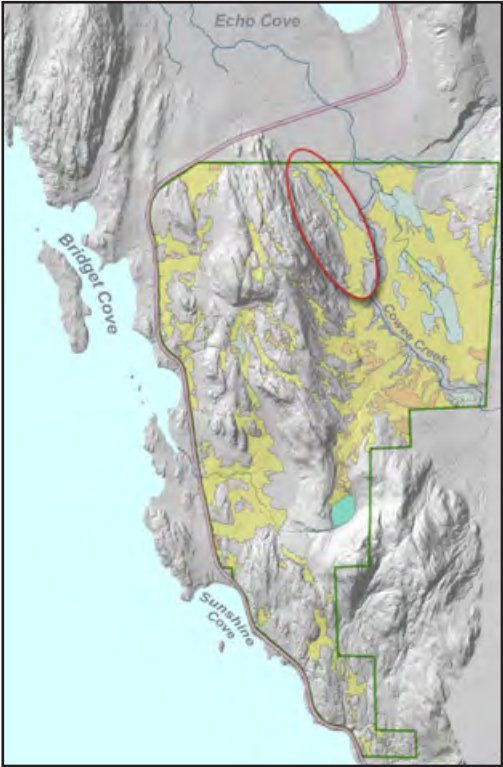


EC04 • **type:** beaver influenced • **acres:** 7.1 • **boundary criteria:** type, pa • **pin:** 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	9.41	Higher	7.14	Higher
Resident Fish Habitat	8.59	Higher	6.46	Higher
Waterbird Nesting Habitat	8.28	Higher	10.00	Higher
Stream Flow Support	7.31	Higher	7.83	Higher
Water Warming	6.01	Higher	8.70	Higher
Phosphorus Retention	5.17	Higher	5.17	Higher
Waterbird Feeding Habitat	8.21	Higher	3.00	Moderate
Invertebrate Habitat	6.17	Higher	5.57	Moderate
Nitrate Removal	4.81	Higher	4.80	Moderate
Sediment Retention & Stabilization	4.65	Higher	3.81	Moderate
Water Storage	6.32	Higher	1.04	Lower
Native Plant Habitat	5.64	Higher	0.57	Lower
Anadromous Fish Habitat	6.47	Moderate	10.00	Higher
Water Cooling	3.61	Moderate	5.60	Higher
Pollinator Habitat	6.53	Moderate	3.36	Moderate
Songbird, Raptor, & Mammal Habitat	5.85	Moderate	3.75	Moderate
Organic Nutrient Export	7.12	Moderate	N.A.	N.A.
Carbon Sequestration	3.86	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	5.95	Higher
Public Use & Recognition	N.A.	N.A.	5.77	Higher
Wetland Risk	N.A.	N.A.	2.96	Lower
Wetland Stressors	N.A.	N.A.	2.91	Lower
Wetland Sensitivity	N.A.	N.A.	2.20	Lower



Unit maps for EC04 & 05



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EC05 • **type:** forested peatland • **acres:** 59.0 • **boundary criteria:** w-u, type, pa •
pin: 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	8.03	Higher	6.78	Higher
Water Cooling	5.81	Higher	6.87	Higher
Phosphorus Retention	4.73	Higher	4.73	Higher
Nitrate Removal	3.36	Higher	5.68	Higher
Songbird, Raptor, & Mammal Habitat	8.25	Higher	3.33	Moderate
Pollinator Habitat	6.91	Higher	4.43	Moderate
Resident Fish Habitat	7.90	Higher	0.58	Lower
Amphibian Habitat	6.59	Higher	3.54	Lower
Organic Nutrient Export	7.78	Higher	N.A.	N.A.
Water Warming	3.61	Moderate	7.58	Higher
Anadromous Fish Habitat	6.75	Moderate	6.67	Moderate
Sediment Retention & Stabilization	3.19	Moderate	3.86	Moderate
Water Storage	4.74	Moderate	1.11	Lower
Waterbird Nesting Habitat	4.66	Moderate	0.00	Lower
Carbon Sequestration	5.98	Moderate	N.A.	N.A.
Native Plant Habitat	3.05	Lower	2.88	Moderate
Invertebrate Habitat	2.55	Lower	4.00	Moderate
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	7.32	Higher
Wetland Risk	N.A.	N.A.	3.64	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.99	Lower
Public Use & Recognition	N.A.	N.A.	1.48	Lower



EC06 • **type:** beaver influenced • **acres:** 23.4 • **boundary criteria:** w-u, type • **pin:** 3B4501000010
 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	9.93	Higher	10.00	Higher
Resident Fish Habitat	9.38	Higher	7.53	Higher
Invertebrate Habitat	9.33	Higher	10.00	Higher
Pollinator Habitat	8.96	Higher	8.52	Higher
Native Plant Habitat	8.20	Higher	7.90	Higher
Stream Flow Support	6.40	Higher	9.76	Higher
Amphibian Habitat	6.04	Higher	8.42	Higher
Nitrate Removal	4.37	Higher	8.84	Higher
Waterbird Nesting Habitat	10.00	Higher	9.40	Moderate
Waterbird Feeding Habitat	9.56	Higher	5.21	Moderate
Sediment Retention & Stabilization	4.85	Higher	2.35	Moderate
Water Storage	5.32	Higher	1.11	Lower
Water Warming	4.83	Higher	2.63	Lower
Organic Nutrient Export	7.94	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	6.27	Moderate	8.02	Higher
Water Cooling	4.50	Moderate	7.36	Higher
Carbon Sequestration	4.68	Moderate	N.A.	N.A.
Phosphorus Retention	2.04	Lower	2.04	Lower
Wetland Sensitivity	N.A.	N.A.	8.48	Higher
Wetland Ecological Condition	N.A.	N.A.	6.79	Higher
Public Use & Recognition	N.A.	N.A.	6.61	Higher
Wetland Risk	N.A.	N.A.	3.16	Lower
Wetland Stressors	N.A.	N.A.	2.75	Lower

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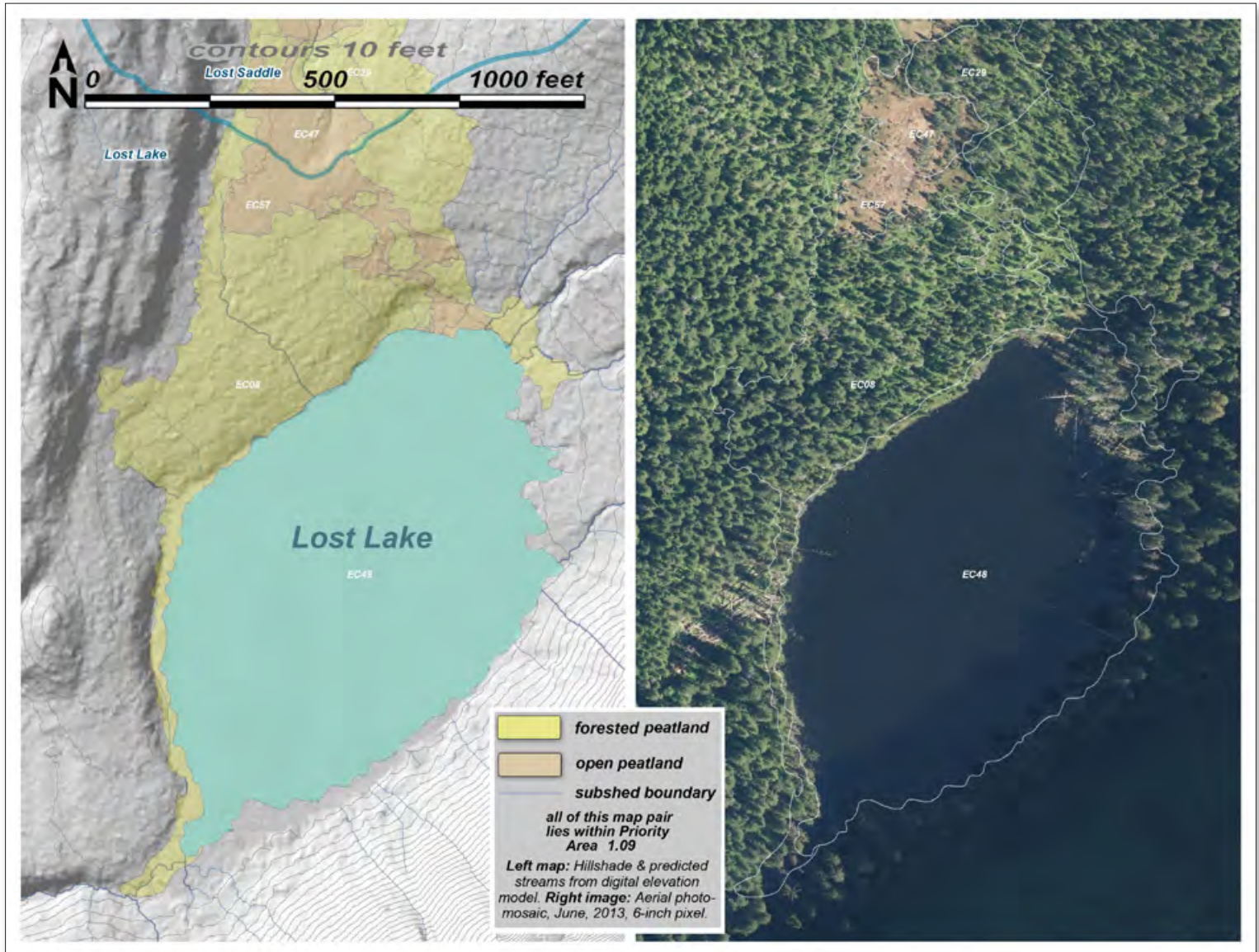
EC07 • **type:** fen/marsh • **acres:** 1.5 • **boundary criteria:** type • **pin:** 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	9.37	Higher	7.85	Higher
Stream Flow Support	8.99	Higher	7.34	Higher
Songbird, Raptor, & Mammal Habitat	8.73	Higher	7.52	Higher
Native Plant Habitat	8.24	Higher	6.95	Higher
Amphibian Habitat	5.54	Higher	7.93	Higher
Resident Fish Habitat	8.05	Higher	4.61	Moderate
Water Warming	5.38	Higher	5.19	Moderate
Anadromous Fish Habitat	6.76	Moderate	10.00	Higher
Water Cooling	5.30	Moderate	5.99	Higher
Invertebrate Habitat	5.04	Moderate	10.00	Higher
Nitrate Removal	2.09	Moderate	6.82	Higher
Waterbird Feeding Habitat	5.85	Moderate	3.21	Moderate
Waterbird Nesting Habitat	5.66	Moderate	9.40	Moderate
Phosphorus Retention	3.02	Moderate	3.02	Moderate
Water Storage	3.67	Moderate	1.11	Lower
Organic Nutrient Export	7.55	Moderate	N.A.	N.A.
Carbon Sequestration	5.21	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.68	Lower	3.81	Moderate
Wetland Ecological Condition	N.A.	N.A.	6.45	Higher
Public Use & Recognition	N.A.	N.A.	6.26	Higher
Wetland Sensitivity	N.A.	N.A.	5.97	Moderate
Wetland Risk	N.A.	N.A.	3.32	Lower
Wetland Stressors	N.A.	N.A.	3.05	Lower

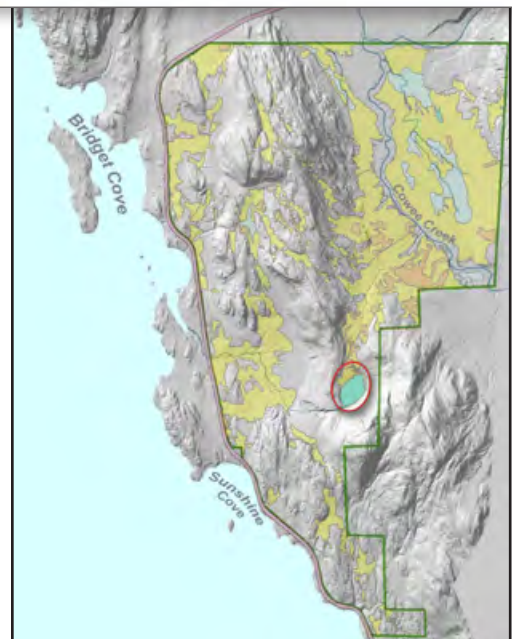


EC08 • **type:** forested peatland • **acres:** 7.4 • **boundary criteria:** w-u, type, subsh • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	6.16	Higher	6.56	Higher
Songbird, Raptor, & Mammal Habitat	9.92	Higher	3.33	Moderate
Pollinator Habitat	8.11	Higher	4.43	Moderate
Amphibian Habitat	7.39	Higher	4.93	Moderate
Stream Flow Support	7.28	Higher	2.60	Moderate
Water Cooling	5.84	Higher	3.51	Moderate
Native Plant Habitat	5.82	Higher	2.88	Moderate
Invertebrate Habitat	6.83	Higher	1.44	Lower
Organic Nutrient Export	9.59	Higher	N.A.	N.A.
Nitrate Removal	2.15	Moderate	5.05	Moderate
Water Storage	3.49	Moderate	1.11	Lower
Carbon Sequestration	5.51	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.35	Lower	3.86	Moderate
Phosphorus Retention	1.92	Lower	1.92	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	6.43	Higher
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Risk	N.A.	N.A.	3.25	Lower
Wetland Stressors	N.A.	N.A.	2.99	Lower
Public Use & Recognition	N.A.	N.A.	1.48	Lower



Unit maps for EC08 48 57





EC09 • **type:** open peatland • **acres:** 1.3 • **boundary criteria:** type • **pin:** 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	7.98	Higher	6.35	Higher
Songbird, Raptor, & Mammal Habitat	8.42	Higher	4.02	Moderate
Pollinator Habitat	7.82	Higher	3.15	Moderate
Waterbird Feeding Habitat	6.30	Higher	3.21	Moderate
Water Warming	5.38	Higher	4.73	Moderate
Native Plant Habitat	6.75	Higher	1.49	Lower
Carbon Sequestration	6.94	Higher	N.A.	N.A.
Anadromous Fish Habitat	6.39	Moderate	10.00	Higher
Water Cooling	5.30	Moderate	5.83	Higher
Nitrate Removal	2.61	Moderate	6.82	Higher
Resident Fish Habitat	6.93	Moderate	4.96	Moderate
Waterbird Nesting Habitat	4.78	Moderate	9.40	Moderate
Phosphorus Retention	3.66	Moderate	3.66	Moderate
Sediment Retention & Stabilization	2.47	Moderate	3.81	Moderate
Water Storage	3.98	Moderate	1.11	Lower
Organic Nutrient Export	6.74	Moderate	N.A.	N.A.
Amphibian Habitat	1.98	Lower	7.98	Higher
Invertebrate Habitat	2.64	Lower	4.16	Moderate
Public Use & Recognition	N.A.	N.A.	6.61	Higher
Wetland Ecological Condition	N.A.	N.A.	6.19	Higher
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Risk	N.A.	N.A.	2.89	Lower
Wetland Stressors	N.A.	N.A.	2.75	Lower



EC10 • **type:** beaver influenced • **acres:** 40.0 • **boundary criteria:** type • **pin:** 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	10.00	Higher	7.37	Higher
Resident Fish Habitat	8.74	Higher	6.34	Higher
Amphibian Habitat	5.47	Higher	9.07	Higher
Water Warming	5.00	Higher	6.31	Higher
Phosphorus Retention	3.97	Higher	3.97	Higher
Songbird, Raptor, & Mammal Habitat	8.29	Higher	5.36	Moderate
Waterbird Feeding Habitat	8.06	Higher	3.21	Moderate
Pollinator Habitat	7.45	Higher	4.21	Moderate
Waterbird Nesting Habitat	7.30	Higher	9.40	Moderate
Native Plant Habitat	5.32	Higher	2.52	Moderate
Water Cooling	5.01	Moderate	6.44	Higher
Anadromous Fish Habitat	6.77	Moderate	6.67	Moderate
Invertebrate Habitat	4.02	Moderate	5.44	Moderate
Sediment Retention & Stabilization	3.22	Moderate	3.86	Moderate
Nitrate Removal	2.89	Moderate	5.30	Moderate
Water Storage	4.87	Moderate	1.11	Lower
Organic Nutrient Export	7.30	Moderate	N.A.	N.A.
Carbon Sequestration	4.48	Moderate	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	4.56	Moderate
Wetland Stressors	N.A.	N.A.	2.86	Lower
Wetland Sensitivity	N.A.	N.A.	2.83	Lower
Wetland Risk	N.A.	N.A.	2.28	Lower
Public Use & Recognition	N.A.	N.A.	1.39	Lower



EC11 • **type:** beaver influenced • **acres:** 4.6 • **boundary criteria:** type • **pin:** 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	9.01	Higher	6.14	Higher
Stream Flow Support	7.31	Higher	8.43	Higher
Amphibian Habitat	6.04	Higher	7.98	Higher
Water Warming	5.46	Higher	6.38	Higher
Phosphorus Retention	3.99	Higher	3.99	Higher
Invertebrate Habitat	8.69	Higher	5.46	Moderate
Waterbird Nesting Habitat	8.09	Higher	9.40	Moderate
Waterbird Feeding Habitat	7.79	Higher	3.21	Moderate
Songbird, Raptor, & Mammal Habitat	7.19	Higher	5.36	Moderate
Native Plant Habitat	7.15	Higher	2.52	Moderate
Sediment Retention & Stabilization	4.51	Higher	2.21	Moderate
Water Storage	5.32	Higher	1.11	Lower
Water Cooling	4.02	Moderate	6.47	Higher
Anadromous Fish Habitat	6.85	Moderate	6.67	Moderate
Pollinator Habitat	5.98	Moderate	4.21	Moderate
Nitrate Removal	2.66	Moderate	4.80	Moderate
Organic Nutrient Export	7.05	Moderate	N.A.	N.A.
Carbon Sequestration	2.89	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	4.55	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.79	Lower
Wetland Risk	N.A.	N.A.	2.20	Lower
Public Use & Recognition	N.A.	N.A.	0.00	Lower



EC12 • **type:** beaver influenced • **acres:** 3.7 • **boundary criteria:** type • **pin:** 3B4501000010 •
known or probable anadromous fish

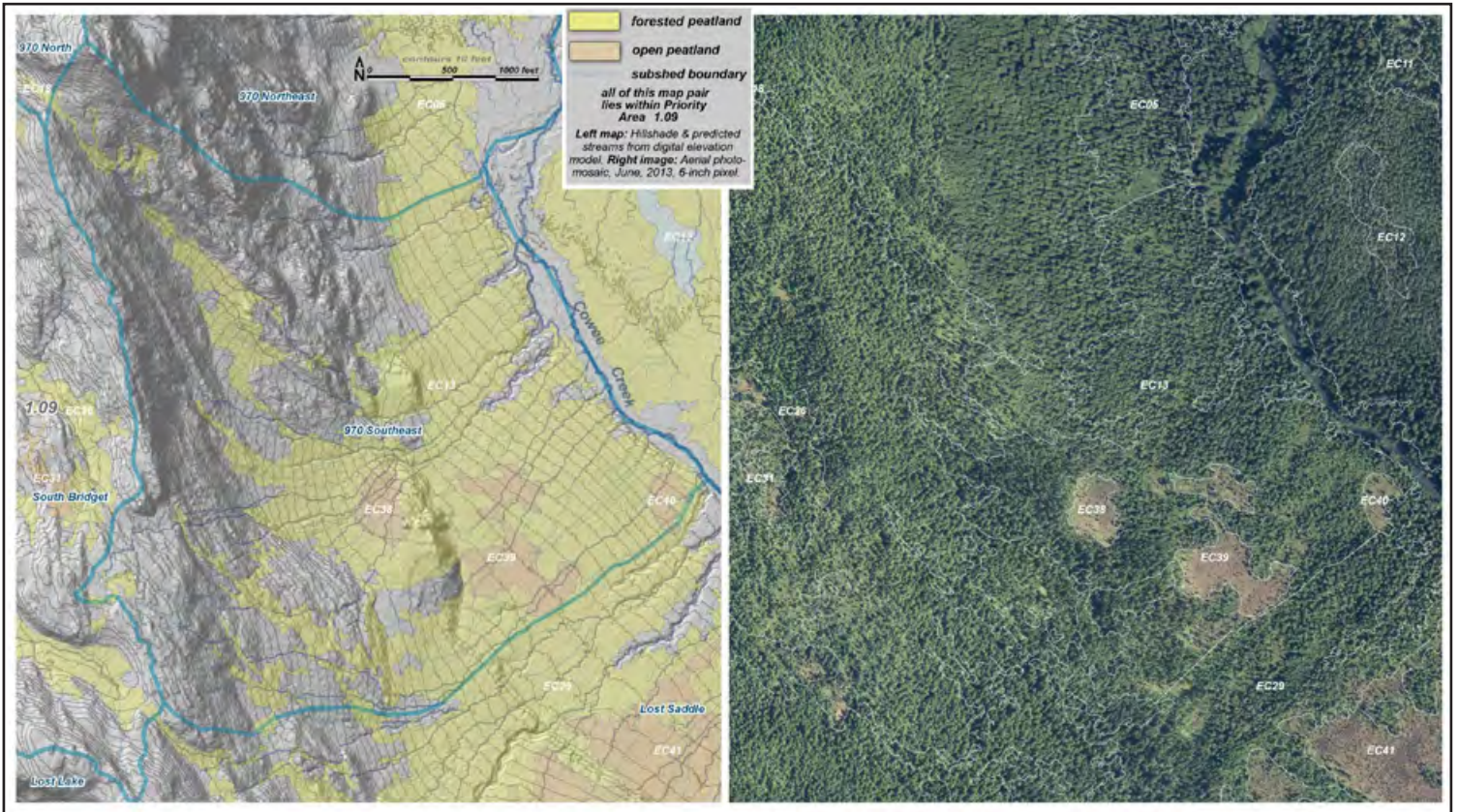
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	5.35	Higher	5.35	Higher
Water Warming	5.04	Higher	6.10	Higher
Songbird, Raptor, & Mammal Habitat	7.46	Higher	3.33	Moderate
Native Plant Habitat	5.93	Higher	2.52	Moderate
Invertebrate Habitat	5.82	Higher	4.04	Moderate
Nitrate Removal	4.74	Higher	4.80	Moderate
Sediment Retention & Stabilization	4.52	Higher	2.21	Moderate
Resident Fish Habitat	8.75	Higher	0.00	Lower
Waterbird Nesting Habitat	6.69	Higher	0.00	Lower
Water Storage	5.55	Higher	1.11	Lower
Organic Nutrient Export	8.10	Higher	N.A.	N.A.
Stream Flow Support	4.64	Moderate	7.84	Higher
Water Cooling	4.09	Moderate	6.57	Higher
Anadromous Fish Habitat	7.09	Moderate	6.67	Moderate
Pollinator Habitat	6.41	Moderate	4.21	Moderate
Amphibian Habitat	3.86	Moderate	2.88	Lower
Carbon Sequestration	5.76	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	7.53	Higher
Wetland Ecological Condition	N.A.	N.A.	4.99	Moderate
Wetland Stressors	N.A.	N.A.	2.86	Lower
Wetland Risk	N.A.	N.A.	2.47	Lower
Public Use & Recognition	N.A.	N.A.	1.39	Lower

EC13 • **type:** forested peatland • **acres:** 90.2 • **boundary criteria:** w-u, type, subshed
 • **pin:** 3B4501000010 • known or probable anadromous fish

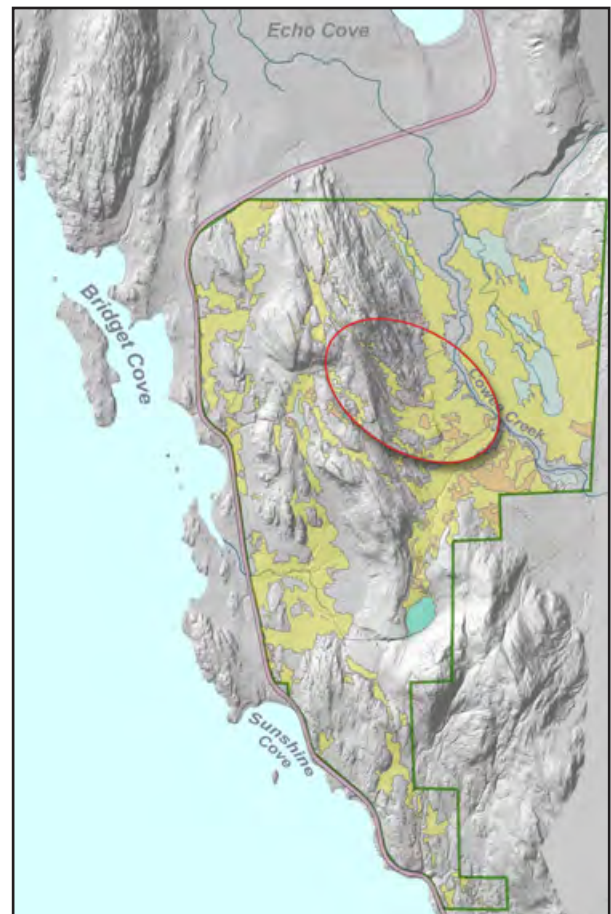


Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	5.40	Higher	6.78	Higher
Native Plant Habitat	7.16	Higher	2.88	Moderate
Resident Fish Habitat	7.54	Higher	0.00	Lower
Amphibian Habitat	7.09	Higher	1.11	Lower
Organic Nutrient Export	9.43	Higher	N.A.	N.A.
Stream Flow Support	4.54	Moderate	6.85	Higher
Water Warming	4.33	Moderate	7.65	Higher
Anadromous Fish Habitat	6.56	Moderate	6.67	Moderate
Pollinator Habitat	5.77	Moderate	4.43	Moderate
Phosphorus Retention	3.28	Moderate	3.28	Moderate
Sediment Retention & Stabilization	2.82	Moderate	2.16	Moderate
Invertebrate Habitat	3.82	Moderate	2.00	Lower
Water Storage	3.49	Moderate	1.11	Lower
Nitrate Removal	1.80	Lower	5.18	Moderate
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	3.78	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	6.03	Higher
Wetland Sensitivity	N.A.	N.A.	3.55	Lower
Wetland Risk	N.A.	N.A.	2.85	Lower
Wetland Stressors	N.A.	N.A.	2.79	Lower
Public Use & Recognition	N.A.	N.A.	0.00	Lower

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Unit maps for EC13, 38, 39, 40





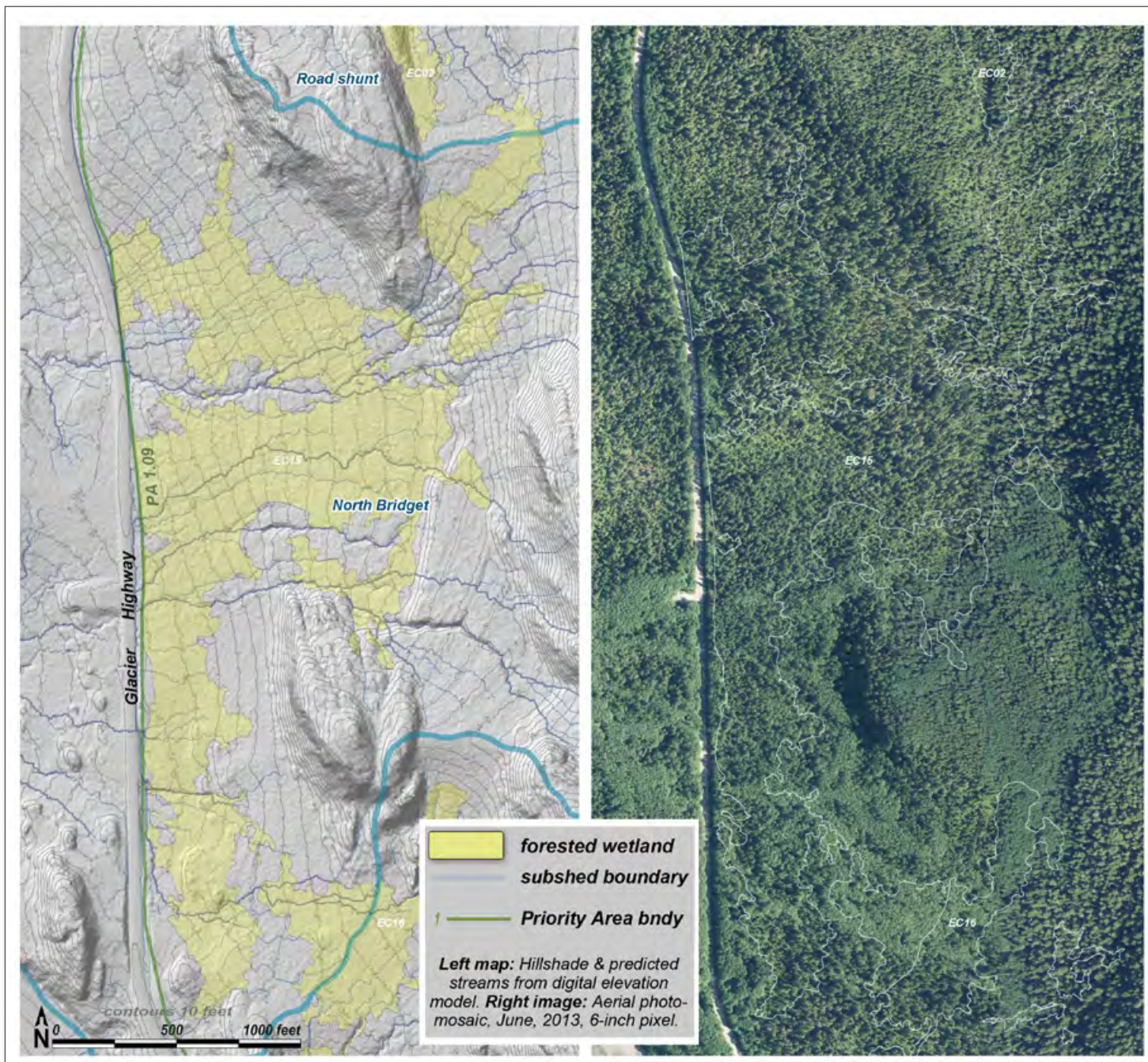
EC14 • **type:** for. peatl. •
acres: 8.4 • **boundary criteria:**
w-u, pa • **pin:** 3B4501000010
• no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	7.28	Higher	2.40	Moderate
Water Cooling	5.59	Higher	3.29	Moderate
Invertebrate Habitat	5.86	Higher	0.00	Lower
Native Plant Habitat	5.48	Higher	0.00	Lower
Organic Nutrient Export	9.28	Higher	N.A.	N.A.
Water Warming	4.62	Moderate	6.62	Higher
Pollinator Habitat	5.25	Moderate	2.95	Moderate
Songbird, Raptor, & Mammal Habitat	3.63	Moderate	2.22	Lower
Amphibian Habitat	3.50	Moderate	0.00	Lower
Water Storage	3.35	Moderate	1.11	Lower
Carbon Sequestration	4.68	Moderate	N.A.	N.A.
Nitrate Removal	1.84	Lower	3.79	Moderate
Sediment Retention & Stabilization	1.38	Lower	4.43	Moderate
Phosphorus Retention	1.17	Lower	1.17	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	4.03	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	2.79	Lower
Wetland Risk	N.A.	N.A.	1.97	Lower
Public Use & Recognition	N.A.	N.A.	0.00	Lower

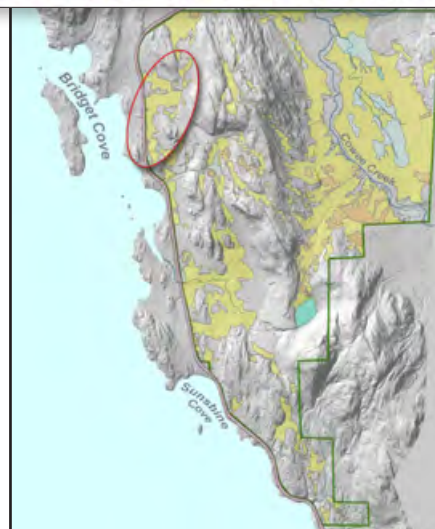


EC15 • **type:** forested peatland • **acres:** 55.0 • **boundary criteria:** w-u, pa, subsh • **pin:** 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.99	Higher	7.28	Higher
Native Plant Habitat	6.93	Higher	6.14	Higher
Phosphorus Retention	4.61	Higher	4.61	Higher
Songbird, Raptor, & Mammal Habitat	8.34	Higher	6.22	Moderate
Organic Nutrient Export	8.85	Higher	N.A.	N.A.
Carbon Sequestration	7.06	Higher	N.A.	N.A.
Water Cooling	4.66	Moderate	5.23	Higher
Stream Flow Support	3.83	Moderate	5.35	Higher
Water Warming	2.94	Moderate	6.03	Higher
Amphibian Habitat	3.32	Moderate	5.00	Moderate
Nitrate Removal	2.08	Moderate	4.95	Moderate
Resident Fish Habitat	5.87	Moderate	1.73	Lower
Anadromous Fish Habitat	4.99	Moderate	1.50	Lower
Invertebrate Habitat	1.92	Lower	10.00	Higher
Sediment Retention & Stabilization	1.19	Lower	3.76	Moderate
Water Storage	2.28	Lower	1.11	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.62	Moderate
Wetland Risk	N.A.	N.A.	6.14	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.28	Moderate
Public Use & Recognition	N.A.	N.A.	1.89	Lower



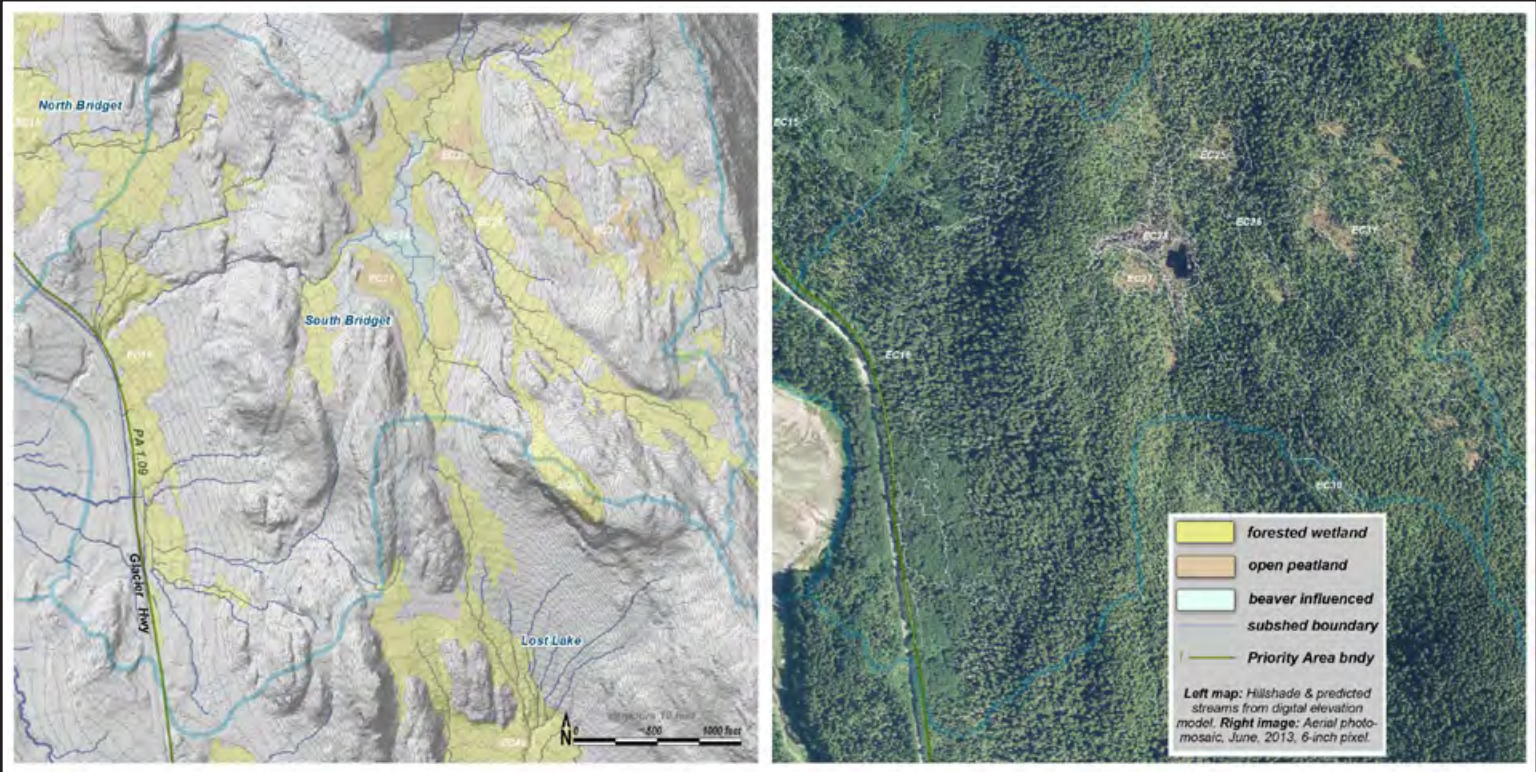
Unit map for EC15



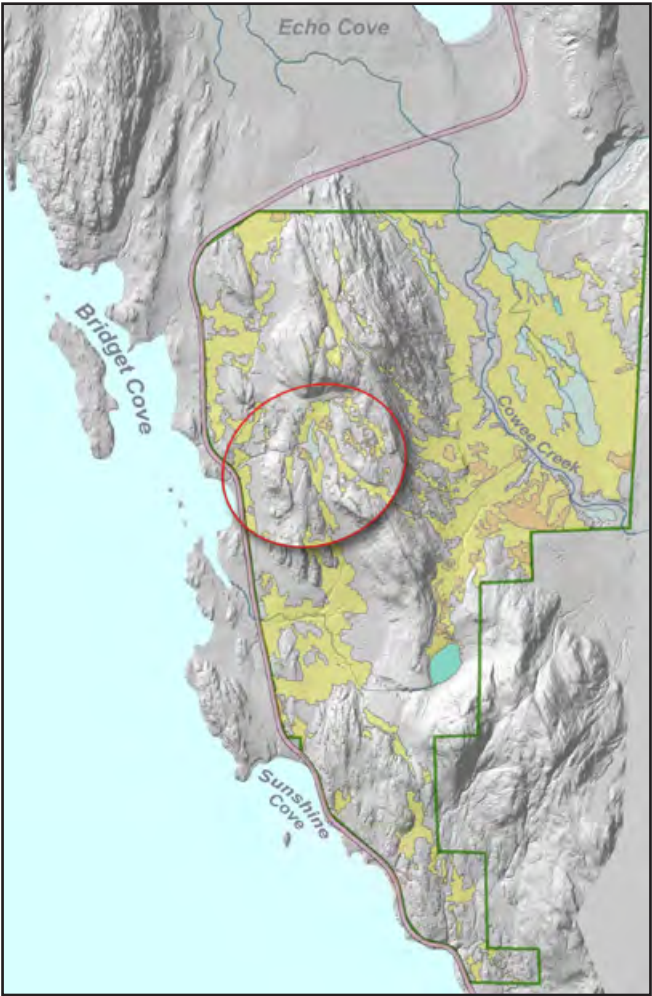


EC16 • **type:** forested peatland • **acres:** 20.3 • **boundary criteria:** w-u, pa, subsh • **pin:** 3B4501000010 • **known or probable anadromous fish**

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	9.33	Higher	7.28	Higher
Native Plant Habitat	5.84	Higher	6.14	Higher
Nitrate Removal	3.28	Higher	5.81	Higher
Songbird, Raptor, & Mammal Habitat	8.20	Higher	6.22	Moderate
Water Cooling	5.44	Higher	2.04	Lower
Organic Nutrient Export	8.73	Higher	N.A.	N.A.
Invertebrate Habitat	3.72	Moderate	10.00	Higher
Amphibian Habitat	3.74	Moderate	5.00	Moderate
Phosphorus Retention	2.80	Moderate	2.80	Moderate
Water Warming	2.52	Moderate	4.26	Moderate
Resident Fish Habitat	7.10	Moderate	2.31	Lower
Anadromous Fish Habitat	4.70	Moderate	2.00	Lower
Water Storage	3.86	Moderate	1.11	Lower
Carbon Sequestration	5.19	Moderate	N.A.	N.A.
Stream Flow Support	2.04	Lower	6.03	Higher
Sediment Retention & Stabilization	1.72	Lower	3.86	Moderate
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	7.06	Higher
Wetland Ecological Condition	N.A.	N.A.	5.87	Higher
Wetland Stressors	N.A.	N.A.	6.82	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.97	Lower



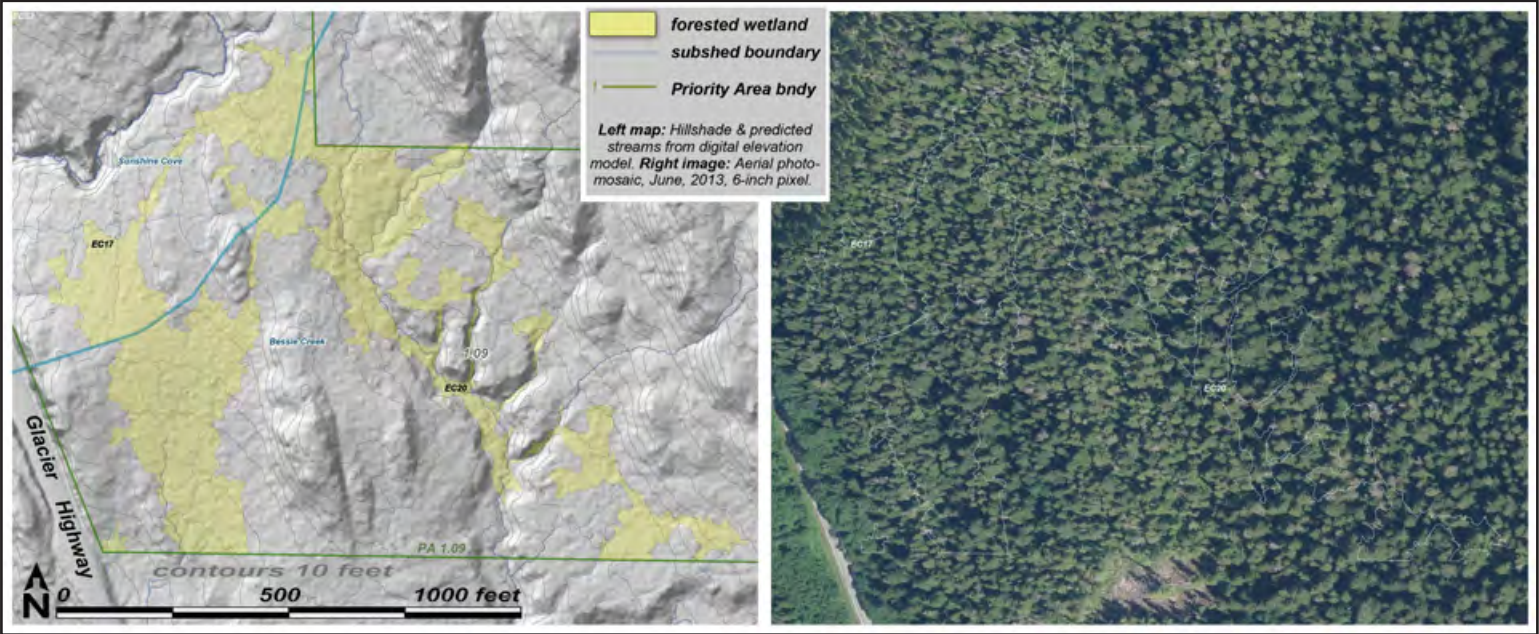
Unit maps for EC 16 25 26 27 28 31



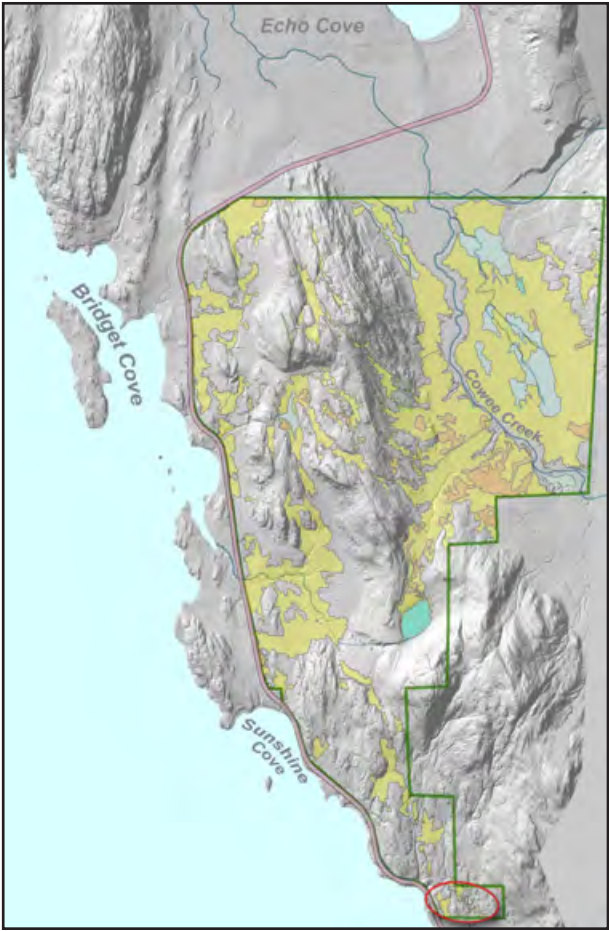


EC17 • **type:** for. peatland
 • **acres:** 1.8 • **boundary**
criteria: w-u,subsh • **pin:**
 3B4501000010 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Invertebrate Habitat	5.99	Higher	1.41	Lower
Carbon Sequestration	6.42	Higher	N.A.	N.A.
Pollinator Habitat	6.63	Moderate	3.26	Moderate
Amphibian Habitat	3.43	Moderate	4.18	Moderate
Water Warming	3.36	Moderate	4.76	Moderate
Nitrate Removal	3.06	Moderate	4.29	Moderate
Phosphorus Retention	2.92	Moderate	2.92	Moderate
Native Plant Habitat	4.43	Moderate	1.40	Lower
Waterbird Nesting Habitat	3.99	Moderate	0.00	Lower
Water Cooling	3.93	Moderate	1.23	Lower
Water Storage	2.97	Moderate	1.11	Lower
Organic Nutrient Export	6.93	Moderate	N.A.	N.A.
Stream Flow Support	2.04	Lower	2.43	Moderate
Sediment Retention & Stabilization	0.93	Lower	3.81	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	3.37	Lower
Public Use & Recognition	N.A.	N.A.	2.20	Lower
Wetland Ecological Condition	N.A.	N.A.	1.85	Lower
Wetland Risk	N.A.	N.A.	1.62	Lower



Unit maps for EC17 & 20

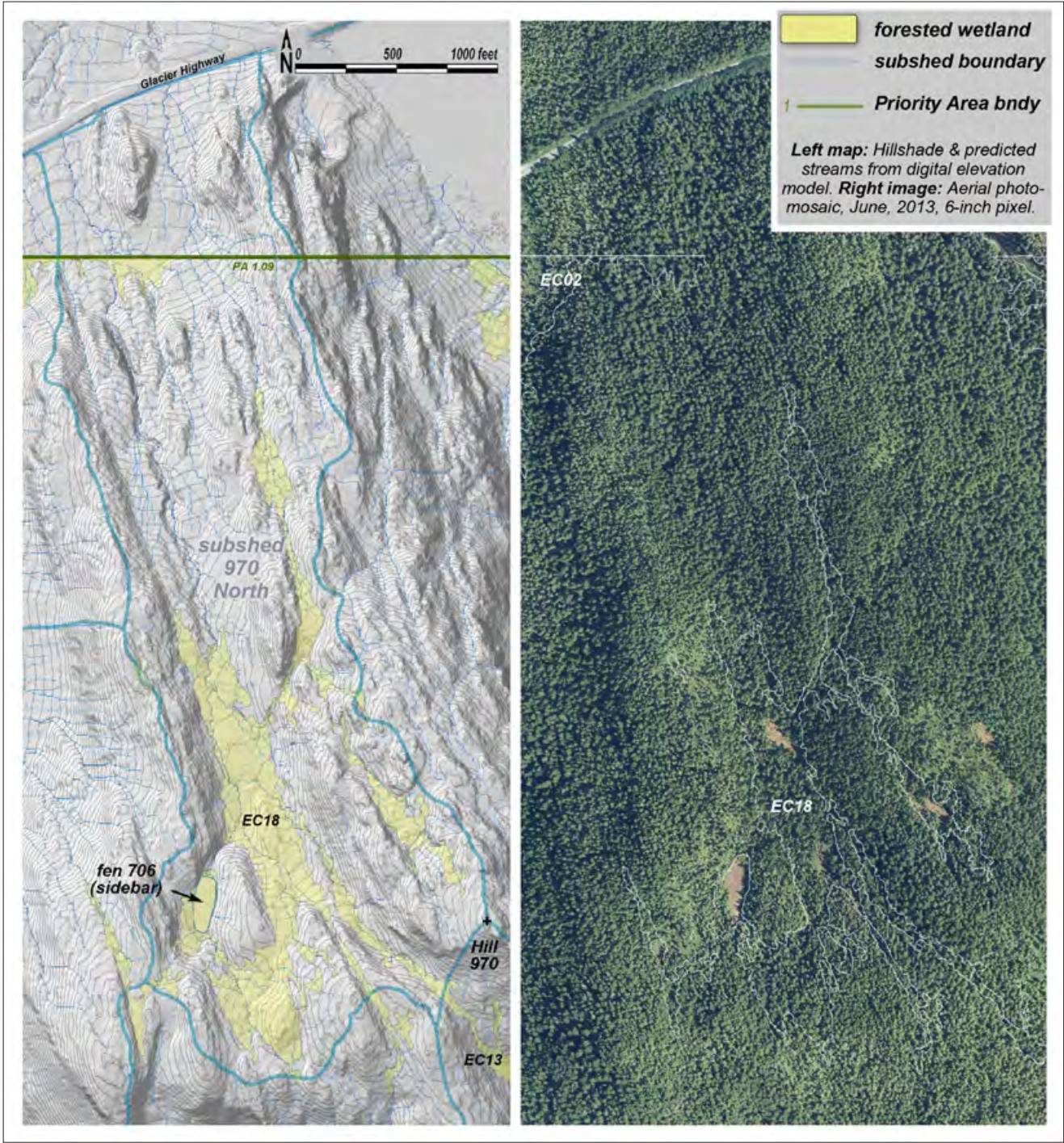


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EC18 • **type:** forested peatland • **acres:** 22.8 • **boundary criteria:** w-u, subsh • **pin:** 3B4501000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.31	Higher	3.33	Moderate
Pollinator Habitat	7.75	Higher	4.43	Moderate
Amphibian Habitat	6.99	Higher	4.43	Moderate
Organic Nutrient Export	8.50	Higher	N.A.	N.A.
Carbon Sequestration	6.82	Higher	N.A.	N.A.
Water Storage	3.51	Moderate	5.00	Moderate
Phosphorus Retention	2.72	Moderate	2.72	Moderate
Invertebrate Habitat	4.30	Moderate	1.30	Lower
Water Cooling	3.93	Moderate	1.23	Lower
Water Warming	3.36	Moderate	0.70	Lower
Nitrate Removal	2.42	Moderate	3.03	Lower
Native Plant Habitat	2.52	Lower	5.29	Moderate
Stream Flow Support	2.14	Lower	2.09	Moderate
Sediment Retention & Stabilization	1.59	Lower	2.63	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	6.29	Higher
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Risk	N.A.	N.A.	3.19	Lower
Wetland Stressors	N.A.	N.A.	2.99	Lower
Public Use & Recognition	N.A.	N.A.	1.60	Lower



Unit map for EC18



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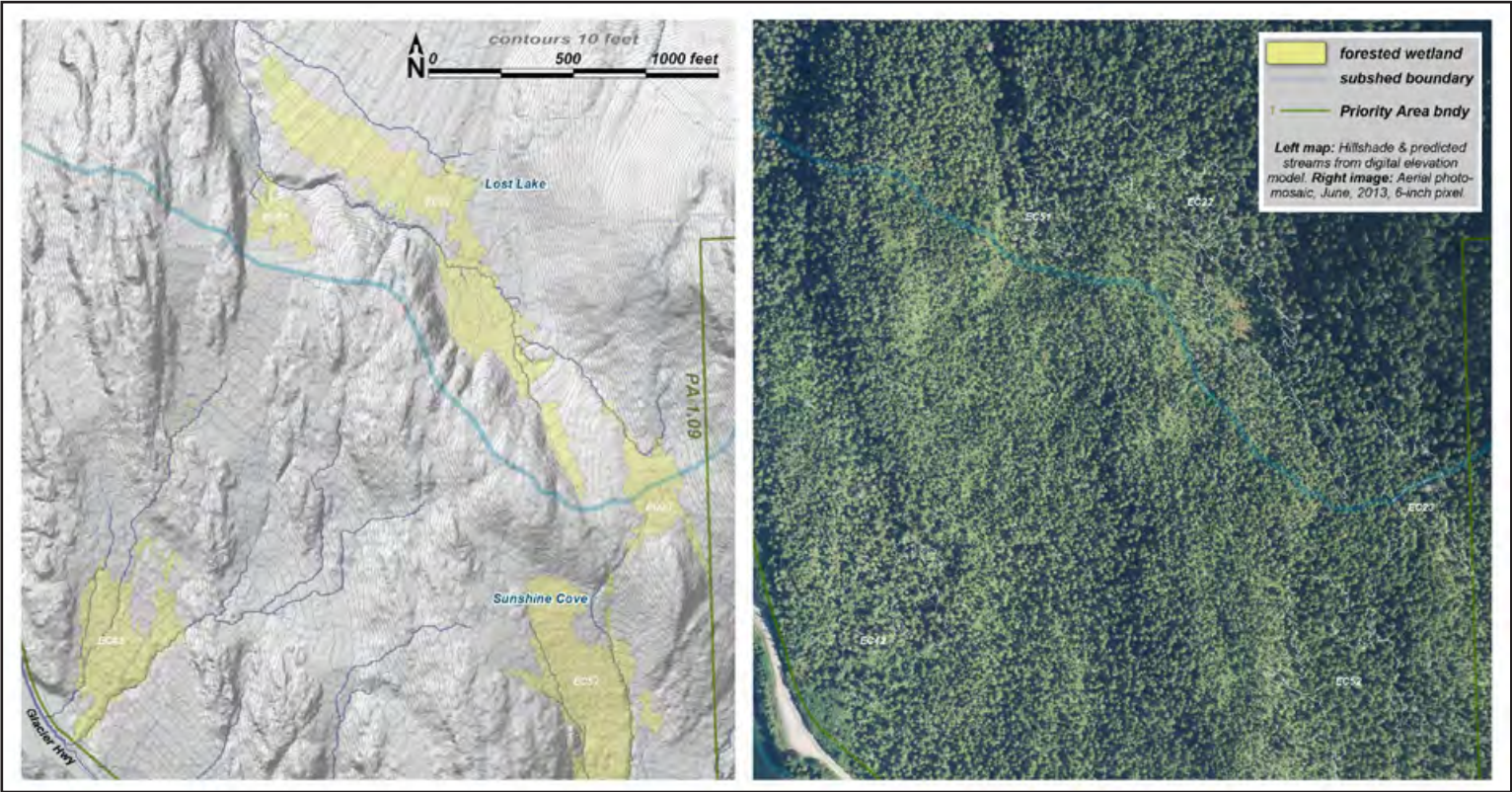
EC20 • **type:** for. peatland
 • **acres:** 6.2 • **boundary**
criteria: w-u, subsh • **pin:**
 3B4501000010 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.31	Higher	3.33	Moderate
Pollinator Habitat	7.75	Higher	4.43	Moderate
Amphibian Habitat	6.99	Higher	4.43	Moderate
Organic Nutrient Export	8.50	Higher	N.A.	N.A.
Carbon Sequestration	6.82	Higher	N.A.	N.A.
Water Storage	3.51	Moderate	5.00	Moderate
Phosphorus Retention	2.72	Moderate	2.72	Moderate
Invertebrate Habitat	4.30	Moderate	1.30	Lower
Water Cooling	3.93	Moderate	1.23	Lower
Water Warming	3.36	Moderate	0.70	Lower
Nitrate Removal	2.42	Moderate	3.03	Lower
Native Plant Habitat	2.52	Lower	5.29	Moderate
Stream Flow Support	2.14	Lower	2.09	Moderate
Sediment Retention & Stabilization	1.59	Lower	2.63	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	6.29	Higher
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Risk	N.A.	N.A.	3.19	Lower
Wetland Stressors	N.A.	N.A.	2.99	Lower
Public Use & Recognition	N.A.	N.A.	1.60	Lower

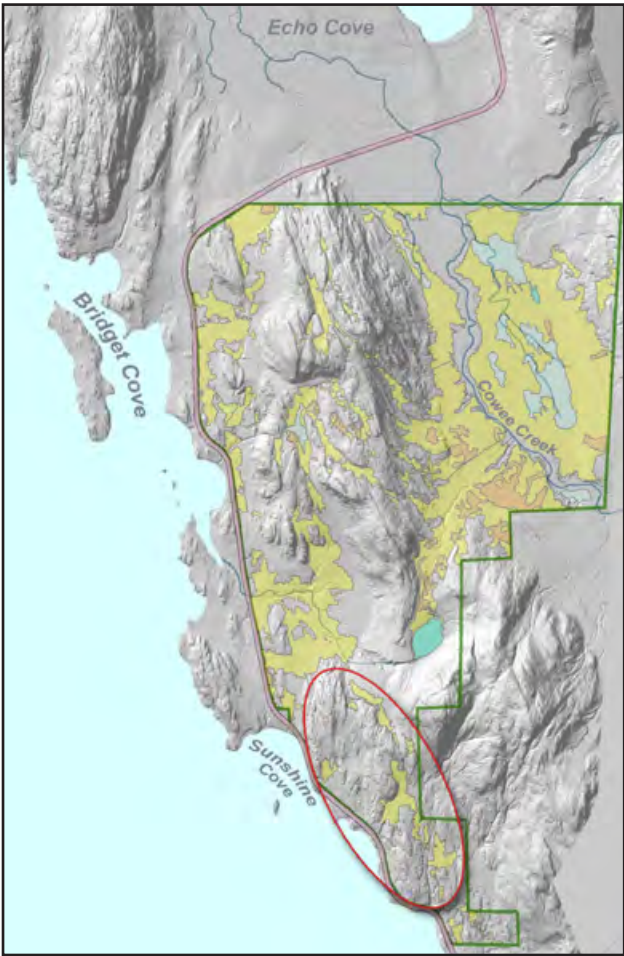


EC22 • **type:** forested peatland • **acres:** 8.8 • **boundary criteria:** w-u, subsh • **pin:** 3B4501000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.57	Higher	6.89	Higher
Stream Flow Support	6.77	Higher	1.79	Moderate
Water Cooling	5.49	Higher	3.07	Moderate
Pollinator Habitat	5.41	Moderate	7.95	Higher
Water Warming	4.12	Moderate	5.26	Moderate
Amphibian Habitat	3.19	Moderate	5.83	Moderate
Waterbird Nesting Habitat	3.32	Moderate	0.00	Lower
Organic Nutrient Export	6.13	Moderate	N.A.	N.A.
Carbon Sequestration	5.44	Moderate	N.A.	N.A.
Invertebrate Habitat	2.81	Lower	10.00	Higher
Native Plant Habitat	1.28	Lower	7.10	Higher
Nitrate Removal	1.26	Lower	3.79	Moderate
Sediment Retention & Stabilization	0.09	Lower	3.78	Moderate
Phosphorus Retention	1.76	Lower	1.76	Lower
Water Storage	1.74	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.65	Moderate
Wetland Stressors	N.A.	N.A.	2.99	Lower
Wetland Risk	N.A.	N.A.	2.45	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower



Unit maps for EC22 23 42 51 52





EC23 • **type:** forested peatland • **acres:** 1.1 • **boundary criteria:** w-u, subsh • **pin:** 3B4501000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.52	Higher	1.75	Moderate
Amphibian Habitat	6.61	Higher	1.96	Lower
Water Warming	4.62	Moderate	5.71	Higher
Water Cooling	5.17	Moderate	3.07	Moderate
Pollinator Habitat	4.41	Moderate	3.26	Moderate
Nitrate Removal	2.76	Moderate	3.79	Moderate
Songbird, Raptor, & Mammal Habitat	6.35	Moderate	2.22	Lower
Waterbird Nesting Habitat	3.37	Moderate	0.00	Lower
Organic Nutrient Export	6.44	Moderate	N.A.	N.A.
Carbon Sequestration	4.17	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	0.42	Lower	3.88	Moderate
Invertebrate Habitat	2.63	Lower	1.25	Lower
Water Storage	2.55	Lower	1.11	Lower
Native Plant Habitat	1.92	Lower	0.43	Lower
Phosphorus Retention	1.16	Lower	1.16	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	6.24	Higher
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Risk	N.A.	N.A.	3.16	Lower
Wetland Stressors	N.A.	N.A.	2.99	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower

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EC24 • **type:** open peatland • **acres:** 3.8 • **boundary criteria:** type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.96	Higher	8.72	Higher
Songbird, Raptor, & Mammal Habitat	7.91	Higher	8.17	Higher
Native Plant Habitat	5.99	Higher	8.19	Higher
Amphibian Habitat	5.56	Higher	6.67	Higher
Water Storage	5.53	Higher	1.11	Lower
Carbon Sequestration	6.39	Higher	N.A.	N.A.
Waterbird Nesting Habitat	5.25	Moderate	10.00	Higher
Waterbird Feeding Habitat	4.53	Moderate	3.33	Moderate
Water Warming	4.33	Moderate	2.75	Moderate
Water Cooling	3.54	Moderate	1.16	Lower
Sediment Retention & Stabilization	2.75	Moderate	0.24	Lower
Nitrate Removal	2.07	Moderate	1.77	Lower
Organic Nutrient Export	7.27	Moderate	N.A.	N.A.
Invertebrate Habitat	2.53	Lower	10.00	Higher
Stream Flow Support	2.90	Lower	1.73	Moderate
Phosphorus Retention	2.28	Lower	2.28	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	10.00	Higher
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Wetland Risk	N.A.	N.A.	4.70	Moderate
Wetland Stressors	N.A.	N.A.	2.86	Lower
Public Use & Recognition	N.A.	N.A.	1.39	Lower



EC25 • **type:** open peatland • **acres:** 1.3 • **boundary criteria:** type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	6.02	Higher	6.51	Higher
Songbird, Raptor, & Mammal Habitat	8.03	Higher	4.17	Moderate
Water Warming	4.88	Higher	3.94	Moderate
Waterbird Nesting Habitat	5.01	Moderate	10.00	Higher
Pollinator Habitat	5.08	Moderate	3.36	Moderate
Waterbird Feeding Habitat	4.62	Moderate	3.33	Moderate
Nitrate Removal	2.70	Moderate	3.54	Moderate
Invertebrate Habitat	4.98	Moderate	2.29	Lower
Water Storage	4.62	Moderate	1.11	Lower
Native Plant Habitat	4.04	Moderate	0.58	Lower
Water Cooling	3.72	Moderate	1.23	Lower
Organic Nutrient Export	7.29	Moderate	N.A.	N.A.
Carbon Sequestration	5.80	Moderate	N.A.	N.A.
Stream Flow Support	2.65	Lower	2.22	Moderate
Sediment Retention & Stabilization	1.86	Lower	3.86	Moderate
Phosphorus Retention	2.29	Lower	2.29	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	6.44	Moderate
Wetland Risk	N.A.	N.A.	5.96	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.31	Moderate
Public Use & Recognition	N.A.	N.A.	1.68	Lower

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EC26 • **type:** forested peatland • **acres:** 46.5 • **boundary criteria:** w-u, type, subsh • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.91	Higher	3.26	Moderate
Amphibian Habitat	7.66	Higher	3.97	Moderate
Songbird, Raptor, & Mammal Habitat	8.77	Higher	2.22	Lower
Invertebrate Habitat	7.26	Higher	1.29	Lower
Organic Nutrient Export	8.92	Higher	N.A.	N.A.
Carbon Sequestration	6.82	Higher	N.A.	N.A.
Water Warming	2.68	Moderate	5.84	Higher
Water Cooling	5.25	Moderate	3.07	Moderate
Stream Flow Support	4.54	Moderate	2.68	Moderate
Nitrate Removal	3.14	Moderate	3.54	Moderate
Phosphorus Retention	2.95	Moderate	2.95	Moderate
Sediment Retention & Stabilization	2.40	Moderate	3.86	Moderate
Native Plant Habitat	5.17	Moderate	1.65	Lower
Water Storage	4.25	Moderate	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.85	Higher
Wetland Ecological Condition	N.A.	N.A.	6.32	Higher
Wetland Stressors	N.A.	N.A.	6.44	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower



EC27 • **type:** open peatland • **acres:** 1.0 • **boundary criteria:** type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	5.81	Higher	7.10	Higher
Songbird, Raptor, & Mammal Habitat	7.83	Higher	4.17	Moderate
Water Storage	5.16	Higher	5.00	Moderate
Water Warming	4.88	Higher	2.34	Lower
Waterbird Nesting Habitat	5.32	Moderate	10.00	Higher
Waterbird Feeding Habitat	5.72	Moderate	3.33	Moderate
Phosphorus Retention	3.14	Moderate	3.14	Moderate
Sediment Retention & Stabilization	2.65	Moderate	2.68	Moderate
Water Cooling	3.72	Moderate	1.23	Lower
Nitrate Removal	2.81	Moderate	3.03	Lower
Organic Nutrient Export	6.19	Moderate	N.A.	N.A.
Carbon Sequestration	5.80	Moderate	N.A.	N.A.
Stream Flow Support	2.65	Lower	1.75	Moderate
Pollinator Habitat	1.56	Lower	3.36	Moderate
Invertebrate Habitat	2.61	Lower	2.42	Lower
Native Plant Habitat	2.01	Lower	0.57	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.44	Moderate
Wetland Risk	N.A.	N.A.	5.88	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.15	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower

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EC28 • **type:** beaver influenced • **acres:** 4.9 • **boundary criteria:** w-u, type • **pin:** 3B4501000010 • no known or probable anadromous fish

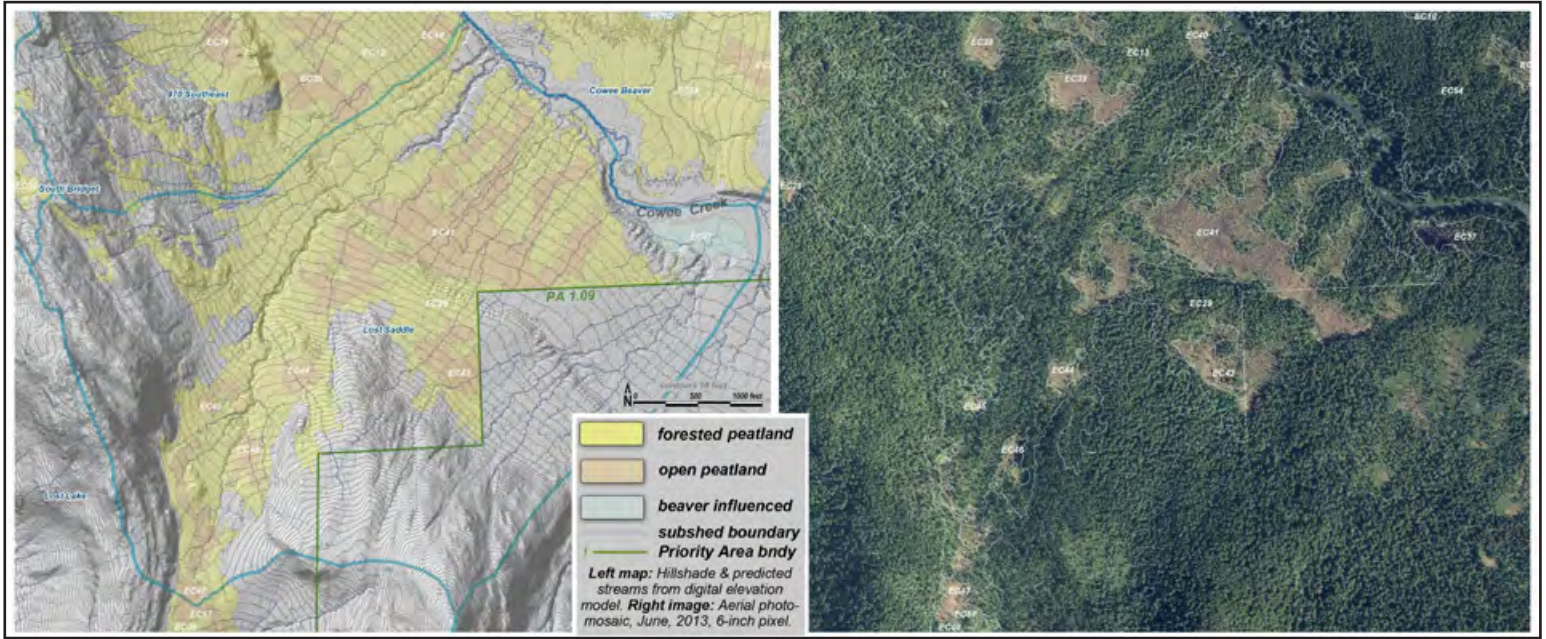
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	10.00	Higher	7.99	Higher
Water Warming	5.08	Higher	6.14	Higher
Waterbird Nesting Habitat	9.63	Higher	9.70	Moderate
Waterbird Feeding Habitat	9.10	Higher	3.27	Moderate
Invertebrate Habitat	8.58	Higher	3.65	Moderate
Stream Flow Support	7.06	Higher	2.95	Moderate
Nitrate Removal	3.42	Higher	3.54	Moderate
Water Storage	5.46	Higher	1.11	Lower
Pollinator Habitat	6.51	Moderate	3.26	Moderate
Songbird, Raptor, & Mammal Habitat	6.13	Moderate	4.09	Moderate
Water Cooling	4.18	Moderate	3.07	Moderate
Sediment Retention & Stabilization	4.08	Moderate	2.85	Moderate
Phosphorus Retention	3.62	Moderate	3.62	Moderate
Native Plant Habitat	4.82	Moderate	0.43	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.41	Lower	N.A.	N.A.
Carbon Sequestration	3.88	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.86	Higher
Wetland Ecological Condition	N.A.	N.A.	6.35	Higher
Wetland Stressors	N.A.	N.A.	6.44	Moderate
Wetland Sensitivity	N.A.	N.A.	2.83	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower



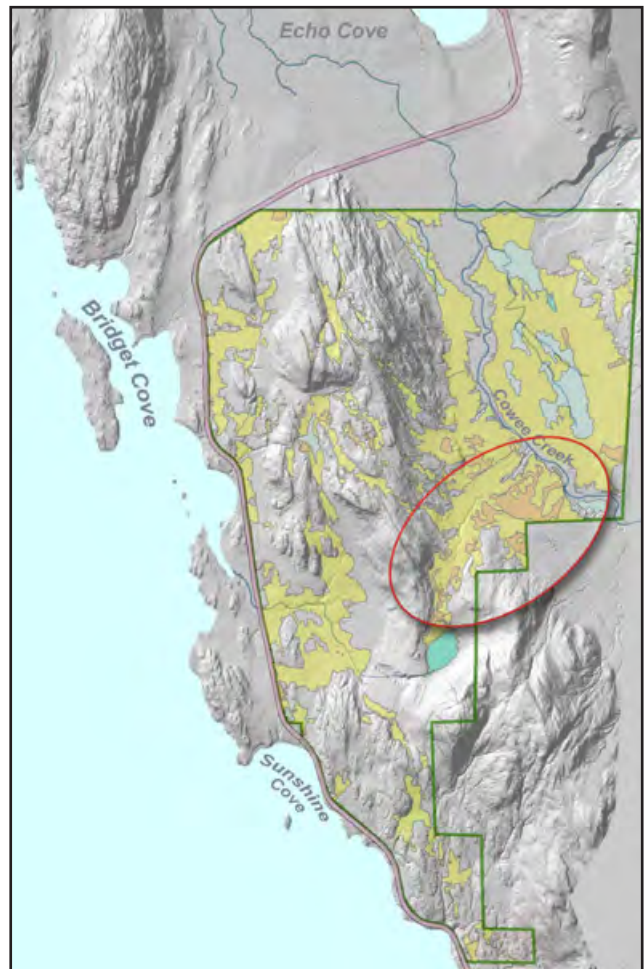
EC29 • **type:** for. peatland
 • **acres:** 116.0 • **boundary**
criteria: w-u, type, subsh, pa
 • **pin:** 3B4501000010 • no
 known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	7.47	Higher	3.51	Moderate
Stream Flow Support	7.03	Higher	1.97	Moderate
Nitrate Removal	3.37	Higher	4.17	Moderate
Organic Nutrient Export	9.19	Higher	N.A.	N.A.
Water Warming	4.62	Moderate	6.52	Higher
Pollinator Habitat	6.39	Moderate	3.15	Moderate
Sediment Retention & Stabilization	2.73	Moderate	3.78	Moderate
Songbird, Raptor, & Mammal Habitat	6.88	Moderate	2.22	Lower
Native Plant Habitat	4.64	Moderate	0.48	Lower
Amphibian Habitat	4.15	Moderate	2.40	Lower
Invertebrate Habitat	3.73	Moderate	0.59	Lower
Water Storage	3.49	Moderate	1.11	Lower
Carbon Sequestration	5.47	Moderate	N.A.	N.A.
Phosphorus Retention	2.55	Lower	2.55	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	2.91	Lower
Wetland Ecological Condition	N.A.	N.A.	1.74	Lower
Wetland Risk	N.A.	N.A.	1.08	Lower
Public Use & Recognition	N.A.	N.A.	0.20	Lower

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Unit maps for EC29 37 41 43 44 45 46





EC31 • **type:** open peatland • **acres:** 2.7 • **boundary criteria:** w-u, type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.54	Higher	4.17	Moderate
Pollinator Habitat	7.60	Higher	3.36	Moderate
Native Plant Habitat	6.08	Higher	1.48	Lower
Carbon Sequestration	7.36	Higher	N.A.	N.A.
Waterbird Nesting Habitat	5.14	Moderate	10.00	Higher
Waterbird Feeding Habitat	5.02	Moderate	3.33	Moderate
Phosphorus Retention	3.23	Moderate	3.23	Moderate
Water Storage	5.00	Moderate	1.11	Lower
Water Cooling	4.34	Moderate	1.05	Lower
Invertebrate Habitat	3.22	Moderate	2.44	Lower
Water Warming	3.19	Moderate	2.25	Lower
Sediment Retention & Stabilization	3.03	Moderate	0.43	Lower
Nitrate Removal	2.60	Moderate	1.26	Lower
Organic Nutrient Export	6.63	Moderate	N.A.	N.A.
Stream Flow Support	2.77	Lower	1.87	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	7.88	Higher
Wetland Risk	N.A.	N.A.	7.56	Higher
Wetland Stressors	N.A.	N.A.	6.45	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.60	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower

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EC37 • **type:** beaver influenced • **acres:** 4.0 • **boundary criteria:** w-u • **pin:** 3B4501000010 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	10.00	Higher	7.10	Higher
Water Warming	9.12	Higher	8.24	Higher
Amphibian Habitat	8.81	Higher	7.50	Higher
Waterbird Nesting Habitat	8.25	Higher	10.00	Higher
Resident Fish Habitat	7.84	Higher	7.40	Higher
Waterbird Feeding Habitat	9.40	Higher	3.00	Moderate
Anadromous Fish Habitat	6.19	Moderate	10.00	Higher
Water Cooling	3.80	Moderate	5.48	Higher
Invertebrate Habitat	3.36	Moderate	10.00	Higher
Nitrate Removal	2.28	Moderate	5.05	Moderate
Pollinator Habitat	3.36	Lower	9.40	Higher
Native Plant Habitat	1.93	Lower	9.14	Higher
Sediment Retention & Stabilization	0.55	Lower	5.41	Moderate
Phosphorus Retention	2.26	Lower	2.26	Lower
Water Storage	1.67	Lower	0.63	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.62	Lower	N.A.	N.A.
Carbon Sequestration	0.00	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	8.88	Higher
Public Use & Recognition	N.A.	N.A.	5.57	Higher
Wetland Risk	N.A.	N.A.	4.12	Moderate
Wetland Stressors	N.A.	N.A.	2.79	Lower
Wetland Sensitivity	N.A.	N.A.	N.A.	N.A.



EC38 • **type:** open peatland • **acres:** 2.0 • **boundary criteria:** type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.94	Higher	8.25	Higher
Stream Flow Support	6.30	Higher	3.04	Moderate
Organic Nutrient Export	7.96	Higher	N.A.	N.A.
Pollinator Habitat	5.50	Moderate	9.40	Higher
Amphibian Habitat	5.03	Moderate	7.50	Higher
Water Warming	3.05	Moderate	8.88	Higher
Water Cooling	2.76	Moderate	3.25	Moderate
Water Storage	4.92	Moderate	1.04	Lower
Waterbird Feeding Habitat	4.07	Moderate	0.00	Lower
Carbon Sequestration	5.86	Moderate	N.A.	N.A.
Invertebrate Habitat	2.15	Lower	10.00	Higher
Native Plant Habitat	1.76	Lower	9.14	Higher
Sediment Retention & Stabilization	2.11	Lower	5.27	Moderate
Nitrate Removal	1.41	Lower	3.79	Moderate
Phosphorus Retention	2.02	Lower	2.02	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	6.96	Higher
Wetland Ecological Condition	N.A.	N.A.	6.76	Higher
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Risk	N.A.	N.A.	3.26	Lower
Wetland Stressors	N.A.	N.A.	2.86	Lower

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EC39 • **type:** open peatland
 • **acres:** 6.0 • **boundary criteria:** type • **pin:** 3B4501000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.34	Higher	8.25	Higher
Carbon Sequestration	6.97	Higher	N.A.	N.A.
Amphibian Habitat	5.12	Moderate	7.50	Higher
Waterbird Nesting Habitat	4.49	Moderate	10.00	Higher
Native Plant Habitat	3.86	Moderate	9.14	Higher
Water Warming	3.19	Moderate	6.23	Higher
Waterbird Feeding Habitat	4.58	Moderate	3.00	Moderate
Phosphorus Retention	3.33	Moderate	3.33	Moderate
Stream Flow Support	3.28	Moderate	2.94	Moderate
Water Cooling	4.34	Moderate	1.30	Lower
Water Storage	3.95	Moderate	1.04	Lower
Organic Nutrient Export	6.93	Moderate	N.A.	N.A.
Pollinator Habitat	3.94	Lower	9.40	Higher
Invertebrate Habitat	1.55	Lower	10.00	Higher
Sediment Retention & Stabilization	1.73	Lower	4.11	Moderate
Nitrate Removal	0.63	Lower	3.54	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	7.42	Higher
Public Use & Recognition	N.A.	N.A.	6.96	Higher
Wetland Risk	N.A.	N.A.	3.55	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.86	Lower



EC40 • **type:** open peat-
land • **acres:** 1.2 • **bound-
ary criteria:** type, subsh • **pin:**
3B4501000010 • known or
probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	5.67	Higher	6.34	Higher
Resident Fish Habitat	7.56	Higher	4.81	Moderate
Amphibian Habitat	5.72	Higher	5.95	Moderate
Waterbird Feeding Habitat	6.11	Higher	0.00	Lower
Organic Nutrient Export	9.57	Higher	N.A.	N.A.
Carbon Sequestration	6.13	Higher	N.A.	N.A.
Stream Flow Support	5.60	Moderate	7.05	Higher
Water Cooling	4.05	Moderate	6.25	Higher
Nitrate Removal	2.64	Moderate	5.68	Higher
Anadromous Fish Habitat	6.34	Moderate	6.67	Moderate
Songbird, Raptor, & Mammal Habitat	6.14	Moderate	5.36	Moderate
Invertebrate Habitat	5.19	Moderate	3.61	Moderate
Native Plant Habitat	4.90	Moderate	2.52	Moderate
Sediment Retention & Stabilization	3.20	Moderate	3.81	Moderate
Water Storage	4.38	Moderate	1.11	Lower
Pollinator Habitat	2.30	Lower	4.21	Moderate
Phosphorus Retention	2.11	Lower	2.11	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.86	Lower
Public Use & Recognition	N.A.	N.A.	1.39	Lower
Wetland Ecological Condition	N.A.	N.A.	0.56	Lower
Wetland Risk	N.A.	N.A.	0.50	Lower

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EC41 • **type:** open peatland • **acres:** 28.0 • **boundary criteria:** type, pa • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.63	Higher	7.75	Higher
Waterbird Nesting Habitat	6.07	Higher	10.00	Higher
Water Warming	5.55	Higher	6.26	Higher
Amphibian Habitat	5.55	Higher	6.28	Moderate
Carbon Sequestration	7.12	Higher	N.A.	N.A.
Pollinator Habitat	4.39	Moderate	8.72	Higher
Native Plant Habitat	4.22	Moderate	8.19	Higher
Waterbird Feeding Habitat	4.77	Moderate	3.00	Moderate
Phosphorus Retention	3.44	Moderate	3.44	Moderate
Stream Flow Support	3.40	Moderate	3.15	Moderate
Sediment Retention & Stabilization	3.12	Moderate	5.21	Moderate
Water Storage	4.85	Moderate	1.46	Lower
Water Cooling	4.73	Moderate	1.30	Lower
Organic Nutrient Export	7.30	Moderate	N.A.	N.A.
Invertebrate Habitat	2.83	Lower	10.00	Higher
Nitrate Removal	1.24	Lower	3.54	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	8.70	Higher
Public Use & Recognition	N.A.	N.A.	6.96	Higher
Wetland Risk	N.A.	N.A.	4.12	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.86	Lower

EC42 • **type:** forested peatland • **acres:**
 3.8 • **boundary criteria:** w-u, pa • **pin:**
 3B4501000010 • no known or probable



Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	7.09	Higher	2.37	Moderate
Stream Flow Support	6.72	Higher	3.32	Moderate
Nitrate Removal	3.33	Higher	4.29	Moderate
Native Plant Habitat	6.35	Higher	0.43	Lower
Organic Nutrient Export	8.86	Higher	N.A.	N.A.
Water Warming	4.62	Moderate	8.42	Higher
Pollinator Habitat	5.59	Moderate	3.26	Moderate
Songbird, Raptor, & Mammal Habitat	6.67	Moderate	1.67	Lower
Amphibian Habitat	4.39	Moderate	2.22	Lower
Invertebrate Habitat	3.87	Moderate	0.59	Lower
Water Storage	2.87	Moderate	1.46	Lower
Carbon Sequestration	5.51	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.76	Lower	5.56	Moderate
Phosphorus Retention	1.97	Lower	1.97	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.82	Moderate
Wetland Risk	N.A.	N.A.	5.56	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.52	Lower
Public Use & Recognition	N.A.	N.A.	2.20	Lower

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EC43 • **type:** open peatland • **acres:** 3.9 • **boundary criteria:** type, pa • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.85	Higher	3.75	Moderate
Stream Flow Support	6.55	Higher	3.09	Moderate
Carbon Sequestration	6.27	Higher	N.A.	N.A.
Water Warming	3.82	Moderate	8.88	Higher
Amphibian Habitat	5.05	Moderate	5.75	Moderate
Pollinator Habitat	5.02	Moderate	3.36	Moderate
Water Cooling	3.10	Moderate	3.25	Moderate
Waterbird Feeding Habitat	3.73	Moderate	0.00	Lower
Water Storage	3.31	Moderate	1.46	Lower
Organic Nutrient Export	7.59	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.35	Lower	5.16	Moderate
Nitrate Removal	1.28	Lower	3.54	Moderate
Invertebrate Habitat	2.48	Lower	1.34	Lower
Phosphorus Retention	2.40	Lower	2.40	Lower
Native Plant Habitat	1.01	Lower	0.57	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	6.17	Higher
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.40	Moderate
Wetland Stressors	N.A.	N.A.	2.92	Lower
Wetland Risk	N.A.	N.A.	2.27	Lower



EC44 • **type:** open peatland • **acres:** 2.3 • **boundary criteria:** type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	5.59	Higher	7.21	Higher
Songbird, Raptor, & Mammal Habitat	9.33	Higher	4.14	Moderate
Invertebrate Habitat	5.47	Higher	1.68	Lower
Organic Nutrient Export	7.78	Higher	N.A.	N.A.
Carbon Sequestration	6.24	Higher	N.A.	N.A.
Pollinator Habitat	5.91	Moderate	3.32	Moderate
Water Warming	3.36	Moderate	2.98	Moderate
Water Cooling	5.08	Moderate	1.47	Lower
Native Plant Habitat	4.16	Moderate	1.33	Lower
Water Storage	4.07	Moderate	1.11	Lower
Waterbird Feeding Habitat	4.05	Moderate	0.00	Lower
Stream Flow Support	3.15	Lower	2.32	Moderate
Phosphorus Retention	2.13	Lower	2.13	Lower
Sediment Retention & Stabilization	1.48	Lower	0.43	Lower
Nitrate Removal	0.87	Lower	0.88	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	7.16	Higher
Public Use & Recognition	N.A.	N.A.	6.96	Higher
Wetland Risk	N.A.	N.A.	3.44	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.86	Lower

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EC45 • **type:** open peatland • **acres:** 1.0 • **boundary criteria:** type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.01	Higher	4.14	Moderate
Water Warming	5.15	Higher	5.44	Moderate
Amphibian Habitat	5.15	Moderate	7.06	Higher
Pollinator Habitat	4.92	Moderate	3.32	Moderate
Stream Flow Support	4.50	Moderate	1.37	Moderate
Water Cooling	4.29	Moderate	1.23	Lower
Waterbird Feeding Habitat	4.23	Moderate	0.00	Lower
Water Storage	3.82	Moderate	0.83	Lower
Organic Nutrient Export	7.43	Moderate	N.A.	N.A.
Carbon Sequestration	4.93	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.86	Lower	3.86	Moderate
Nitrate Removal	1.84	Lower	3.91	Moderate
Invertebrate Habitat	2.43	Lower	1.60	Lower
Phosphorus Retention	2.19	Lower	2.19	Lower
Native Plant Habitat	1.60	Lower	0.92	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	7.16	Higher
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.33	Moderate
Wetland Stressors	N.A.	N.A.	2.99	Lower
Wetland Risk	N.A.	N.A.	2.31	Lower



EC46 • **type:** open peatland • **acres:** 1.4 • **boundary criteria:** type • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	5.73	Higher	7.32	Higher
Songbird, Raptor, & Mammal Habitat	9.40	Higher	4.14	Moderate
Stream Flow Support	6.30	Higher	2.53	Moderate
Invertebrate Habitat	6.49	Higher	1.72	Lower
Organic Nutrient Export	8.17	Higher	N.A.	N.A.
Carbon Sequestration	6.24	Higher	N.A.	N.A.
Water Warming	3.36	Moderate	7.85	Higher
Pollinator Habitat	6.63	Moderate	3.32	Moderate
Water Cooling	5.08	Moderate	3.68	Moderate
Native Plant Habitat	4.57	Moderate	1.55	Lower
Waterbird Feeding Habitat	4.13	Moderate	0.00	Lower
Water Storage	3.97	Moderate	1.11	Lower
Phosphorus Retention	2.38	Lower	2.38	Lower
Sediment Retention & Stabilization	1.67	Lower	0.43	Lower
Nitrate Removal	1.31	Lower	0.88	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	7.16	Higher
Wetland Ecological Condition	N.A.	N.A.	6.39	Higher
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Risk	N.A.	N.A.	3.25	Lower
Wetland Stressors	N.A.	N.A.	3.00	Lower

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EC47 • **type:** open peatland • **acres:** 3.3 • **boundary criteria:** type, subsh • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	4.88	Higher	3.19	Moderate
Songbird, Raptor, & Mammal Habitat	7.68	Higher	2.22	Lower
Amphibian Habitat	6.69	Higher	3.06	Lower
Organic Nutrient Export	7.85	Higher	N.A.	N.A.
Water Storage	4.07	Moderate	1.11	Lower
Water Cooling	3.72	Moderate	1.47	Lower
Carbon Sequestration	5.30	Moderate	N.A.	N.A.
Stream Flow Support	2.65	Lower	1.84	Moderate
Pollinator Habitat	1.56	Lower	3.32	Moderate
Invertebrate Habitat	3.08	Lower	1.00	Lower
Nitrate Removal	1.71	Lower	0.63	Lower
Phosphorus Retention	1.63	Lower	1.63	Lower
Sediment Retention & Stabilization	1.62	Lower	0.31	Lower
Native Plant Habitat	0.70	Lower	0.52	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	6.37	Higher
Wetland Ecological Condition	N.A.	N.A.	3.40	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	3.06	Lower
Wetland Risk	N.A.	N.A.	1.98	Lower



EC48 • **type:** fen/marsh •
acres: 13.0 • **boundary criteria:**
w-u, type • **pin:** 3B4501000010
• ~~known or probable anadromous fish~~

(There's a history of stocking here, but anadromous fish can't ascend the final gorge. Scores will be recalculated.)

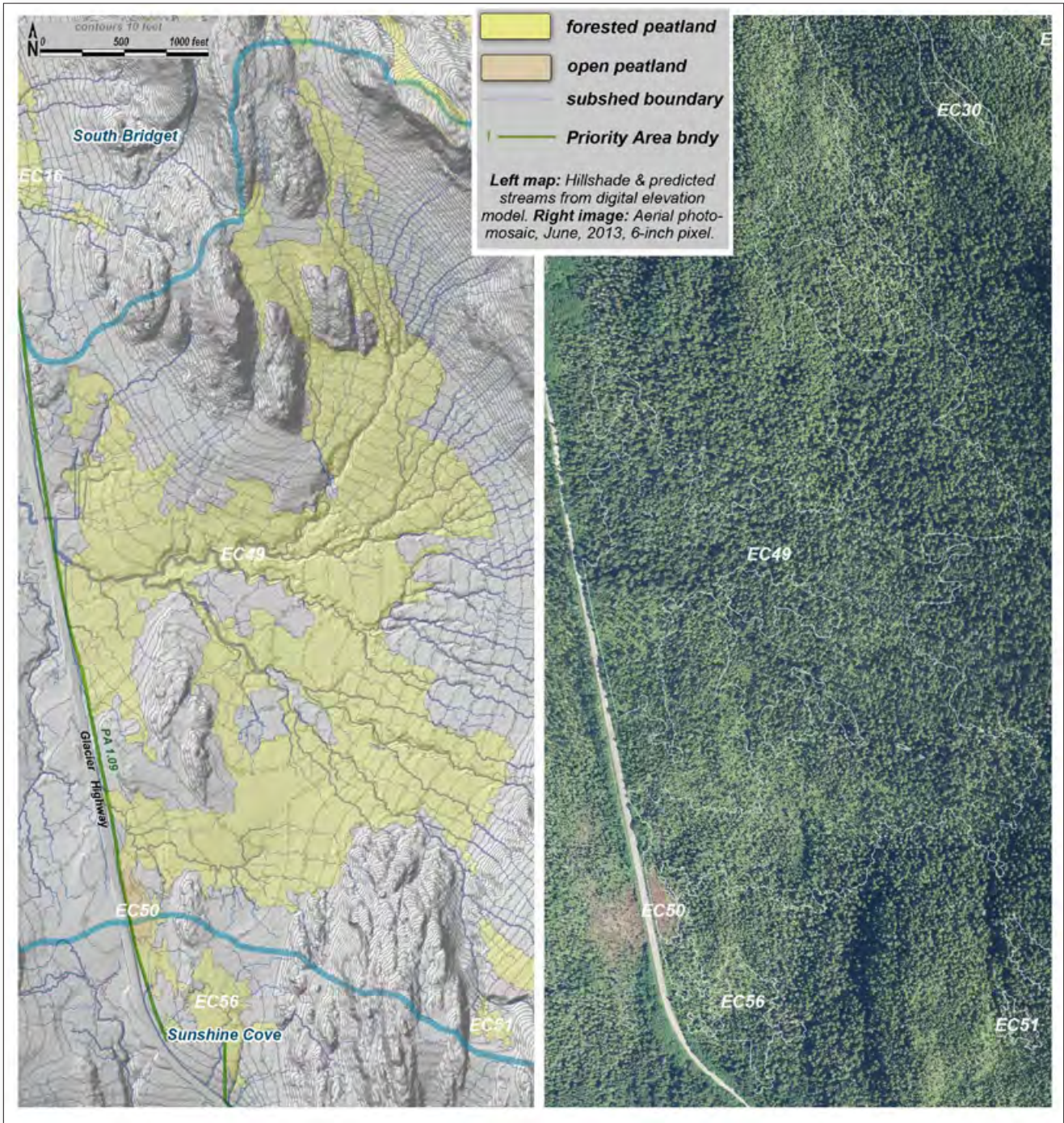
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	10.00	Higher	7.88	Higher
Waterbird Nesting Habitat	9.84	Higher	10.00	Higher
Stream Flow Support	9.04	Higher	8.61	Higher
Water Warming	7.35	Higher	6.06	Higher
Native Plant Habitat	7.16	Higher	6.29	Higher
Invertebrate Habitat	6.87	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	3.33	Moderate
Amphibian Habitat	9.36	Higher	5.00	Moderate
Anadromous Fish Habitat	7.46	Higher	6.83	Moderate
Nitrate Removal	3.65	Higher	4.55	Moderate
Pollinator Habitat	4.97	Moderate	7.38	Higher
Water Cooling	4.50	Moderate	6.29	Higher
Sediment Retention & Stabilization	3.28	Moderate	4.06	Moderate
Phosphorus Retention	3.06	Moderate	3.06	Moderate
Water Storage	4.61	Moderate	1.11	Lower
Organic Nutrient Export	6.47	Moderate	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	1.17	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	3.39	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower
Wetland Stressors	N.A.	N.A.	2.91	Lower
Wetland Risk	N.A.	N.A.	1.82	Lower
Public Use & Recognition	N.A.	N.A.	0.20	Lower

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EC49 • **type:** forested peatland • **acres:** 130.0 • **boundary criteria:** w-u, pa, subsh • **pin:** 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.77	Higher	6.26	Higher
Water Cooling	6.26	Higher	5.74	Higher
Phosphorus Retention	3.98	Higher	3.98	Higher
Pollinator Habitat	8.49	Higher	3.26	Moderate
Amphibian Habitat	6.94	Higher	3.97	Moderate
Songbird, Raptor, & Mammal Habitat	8.77	Higher	2.22	Lower
Native Plant Habitat	6.93	Higher	1.81	Lower
Organic Nutrient Export	9.17	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	6.50	Higher
Nitrate Removal	2.91	Moderate	4.55	Moderate
Sediment Retention & Stabilization	2.64	Moderate	3.86	Moderate
Resident Fish Habitat	6.94	Moderate	0.58	Lower
Anadromous Fish Habitat	6.19	Moderate	0.50	Lower
Water Storage	3.67	Moderate	1.11	Lower
Carbon Sequestration	5.89	Moderate	N.A.	N.A.
Invertebrate Habitat	2.58	Lower	3.24	Moderate
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	8.67	Higher
Wetland Stressors	N.A.	N.A.	5.36	Moderate
Wetland Risk	N.A.	N.A.	4.93	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.57	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower



Unit maps for EC49 50 56



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EC50 • **type:** open peatland • **acres:** 1.2 • **boundary criteria:** type, pa, subsh • **pin:** 3B4501000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	5.84	Higher	6.63	Higher
Songbird, Raptor, & Mammal Habitat	7.72	Higher	3.75	Moderate
Water Cooling	5.59	Higher	0.72	Lower
Carbon Sequestration	7.61	Higher	N.A.	N.A.
Waterbird Nesting Habitat	4.54	Moderate	10.00	Higher
Pollinator Habitat	5.43	Moderate	3.36	Moderate
Waterbird Feeding Habitat	5.18	Moderate	5.00	Moderate
Water Storage	4.28	Moderate	5.00	Moderate
Invertebrate Habitat	4.76	Moderate	2.23	Lower
Water Warming	3.47	Moderate	1.94	Lower
Sediment Retention & Stabilization	2.37	Moderate	1.84	Lower
Nitrate Removal	2.17	Moderate	0.00	Lower
Native Plant Habitat	3.00	Lower	2.94	Moderate
Stream Flow Support	2.77	Lower	3.46	Moderate
Phosphorus Retention	2.50	Lower	2.50	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.12	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.94	Higher
Wetland Ecological Condition	N.A.	N.A.	6.50	Higher
Wetland Stressors	N.A.	N.A.	6.44	Moderate
Public Use & Recognition	N.A.	N.A.	2.95	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower

EC51 • **type:** forested peatland
 • **acres:** 1.0 • **boundary criteria:** w-u • **pin:** 3B4501000010 •
 no known or probable anadromous fish



Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.35	Higher	3.26	Moderate
Songbird, Raptor, & Mammal Habitat	9.72	Higher	1.67	Lower
Organic Nutrient Export	8.41	Higher	N.A.	N.A.
Water Warming	3.68	Moderate	9.05	Higher
Stream Flow Support	4.84	Moderate	3.12	Moderate
Amphibian Habitat	3.38	Moderate	4.77	Moderate
Water Cooling	3.30	Moderate	2.84	Moderate
Native Plant Habitat	4.65	Moderate	1.88	Lower
Carbon Sequestration	5.98	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.38	Lower	2.14	Moderate
Water Storage	2.74	Lower	1.46	Lower
Invertebrate Habitat	2.64	Lower	0.97	Lower
Nitrate Removal	1.06	Lower	0.76	Lower
Phosphorus Retention	0.43	Lower	0.43	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.45	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Risk	N.A.	N.A.	4.93	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.98	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower



EC52 • **type:** forested
peatland • **acres:** 30.3 •
boundary criteria: w-u, pa
• **pin:** 3B4501000010 • no
known or probable anadrom-
ous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Organic Nutrient Export	7.85	Higher	N.A.	N.A.
Carbon Sequestration	7.57	Higher	N.A.	N.A.
Water Cooling	4.60	Moderate	2.63	Moderate
Stream Flow Support	3.63	Moderate	1.89	Moderate
Phosphorus Retention	2.72	Moderate	2.72	Moderate
Songbird, Raptor, & Mammal Habitat	5.97	Moderate	2.22	Lower
Native Plant Habitat	4.25	Moderate	0.43	Lower
Amphibian Habitat	3.38	Moderate	1.64	Lower
Invertebrate Habitat	3.31	Moderate	0.36	Lower
Sediment Retention & Stabilization	2.70	Moderate	0.28	Lower
Nitrate Removal	2.14	Moderate	0.51	Lower
Pollinator Habitat	3.95	Lower	3.26	Moderate
Water Storage	0.81	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	2.93	Lower
Wetland Ecological Condition	N.A.	N.A.	1.14	Lower
Wetland Risk	N.A.	N.A.	0.83	Lower
Public Use & Recognition	N.A.	N.A.	0.41	Lower



EC53 • **type:** beaver influenced • **acres:** 1.0 • **boundary criteria:** w-u, pa • **pin:** 3B4501000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.03	Higher	7.05	Higher
Amphibian Habitat	6.35	Higher	9.75	Higher
Water Cooling	5.56	Higher	5.14	Higher
Waterbird Feeding Habitat	8.95	Higher	3.21	Moderate
Songbird, Raptor, & Mammal Habitat	8.38	Higher	4.02	Moderate
Pollinator Habitat	7.03	Higher	3.15	Moderate
Waterbird Nesting Habitat	6.75	Higher	9.40	Moderate
Invertebrate Habitat	6.09	Higher	5.43	Moderate
Sediment Retention & Stabilization	4.28	Higher	4.21	Moderate
Native Plant Habitat	7.08	Higher	1.25	Lower
Anadromous Fish Habitat	6.42	Moderate	10.00	Higher
Stream Flow Support	4.03	Moderate	7.65	Higher
Water Warming	3.78	Moderate	6.80	Higher
Nitrate Removal	2.79	Moderate	6.57	Higher
Phosphorus Retention	3.66	Moderate	3.66	Moderate
Water Storage	4.61	Moderate	1.46	Lower
Organic Nutrient Export	7.09	Moderate	N.A.	N.A.
Carbon Sequestration	4.93	Moderate	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	6.29	Higher
Public Use & Recognition	N.A.	N.A.	6.00	Higher
Wetland Risk	N.A.	N.A.	2.79	Lower
Wetland Stressors	N.A.	N.A.	2.62	Lower
Wetland Sensitivity	N.A.	N.A.	2.15	Lower

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EC54 • **type:** forested peatland • **acres:** 306.7 • **boundary criteria:** w-u, type • **pin:** 3B4501000010
 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	9.61	Higher	8.52	Higher
Songbird, Raptor, & Mammal Habitat	8.77	Higher	7.56	Higher
Native Plant Habitat	6.91	Higher	7.90	Higher
Water Cooling	5.94	Higher	5.31	Higher
Phosphorus Retention	4.29	Higher	4.29	Higher
Sediment Retention & Stabilization	4.41	Higher	4.21	Moderate
Waterbird Nesting Habitat	6.00	Higher	0.00	Lower
Anadromous Fish Habitat	5.79	Moderate	10.00	Higher
Stream Flow Support	4.29	Moderate	6.32	Higher
Amphibian Habitat	3.10	Moderate	6.67	Higher
Nitrate Removal	2.29	Moderate	6.82	Higher
Resident Fish Habitat	6.58	Moderate	4.42	Moderate
Water Storage	4.61	Moderate	1.04	Lower
Organic Nutrient Export	6.73	Moderate	N.A.	N.A.
Carbon Sequestration	4.86	Moderate	N.A.	N.A.
Invertebrate Habitat	1.35	Lower	10.00	Higher
Water Warming	1.43	Lower	3.75	Moderate
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	6.38	Higher
Public Use & Recognition	N.A.	N.A.	6.26	Higher
Wetland Sensitivity	N.A.	N.A.	3.64	Lower
Wetland Risk	N.A.	N.A.	3.29	Lower
Wetland Stressors	N.A.	N.A.	3.05	Lower



EC56 • **type:** forested peatland • **acres:** 6.1 • **boundary criteria:** w-u, type, pa subsh • **pin:** 3B4501000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	5.46	Higher	5.84	Higher
Phosphorus Retention	4.11	Higher	4.11	Higher
Water Cooling	7.22	Higher	2.37	Moderate
Nitrate Removal	4.13	Higher	4.29	Moderate
Amphibian Habitat	7.63	Higher	2.91	Lower
Songbird, Raptor, & Mammal Habitat	7.49	Higher	1.67	Lower
Stream Flow Support	5.51	Moderate	2.96	Moderate
Water Storage	4.48	Moderate	5.00	Moderate
Pollinator Habitat	4.35	Moderate	3.26	Moderate
Sediment Retention & Stabilization	3.68	Moderate	3.93	Moderate
Native Plant Habitat	4.49	Moderate	0.43	Lower
Waterbird Nesting Habitat	2.99	Moderate	0.00	Lower
Organic Nutrient Export	7.30	Moderate	N.A.	N.A.
Carbon Sequestration	5.82	Moderate	N.A.	N.A.
Invertebrate Habitat	1.68	Lower	1.49	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	8.15	Higher
Wetland Risk	N.A.	N.A.	7.21	Higher
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.04	Lower
Public Use & Recognition	N.A.	N.A.	2.23	Lower



EC57 • **type:** open peatland • **acres:** 1.3 • **boundary criteria:** type, subsh • **pin:** 3B4501000010 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.18	Higher	4.17	Moderate
Amphibian Habitat	6.14	Higher	6.05	Moderate
Invertebrate Habitat	6.04	Higher	1.52	Lower
Water Warming	4.88	Higher	2.26	Lower
Organic Nutrient Export	7.87	Higher	N.A.	N.A.
Carbon Sequestration	6.96	Higher	N.A.	N.A.
Pollinator Habitat	6.34	Moderate	3.36	Moderate
Water Storage	4.07	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.76	Moderate	0.00	Lower
Water Cooling	3.72	Moderate	1.05	Lower
Native Plant Habitat	3.55	Moderate	0.99	Lower
Nitrate Removal	2.55	Moderate	0.25	Lower
Stream Flow Support	2.65	Lower	2.44	Moderate
Sediment Retention & Stabilization	1.81	Lower	0.31	Lower
Phosphorus Retention	1.75	Lower	1.75	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Ecological Condition	N.A.	N.A.	5.84	Higher
Wetland Risk	N.A.	N.A.	3.22	Lower
Wetland Stressors	N.A.	N.A.	3.21	Lower
Public Use & Recognition	N.A.	N.A.	1.15	Lower

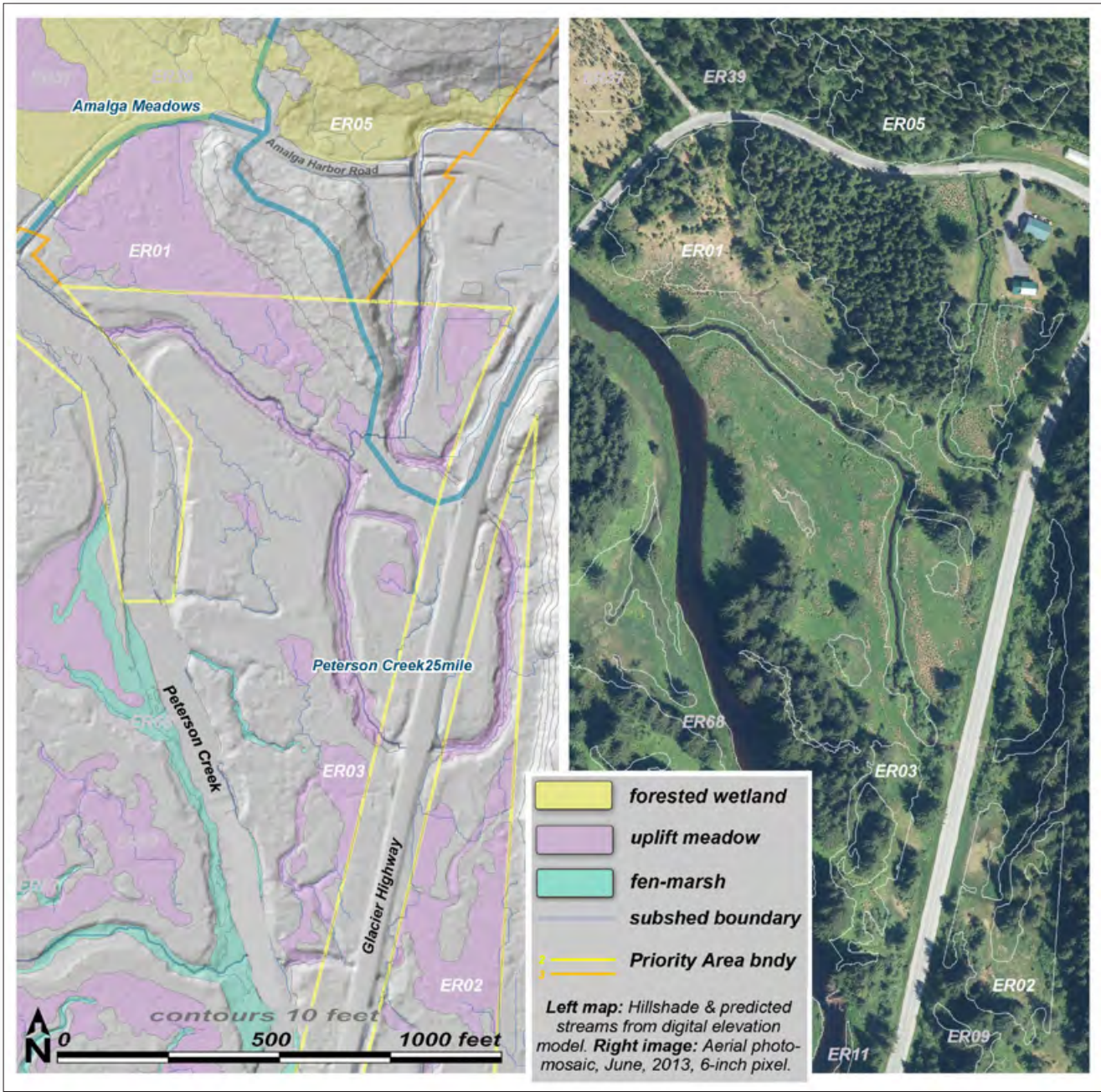


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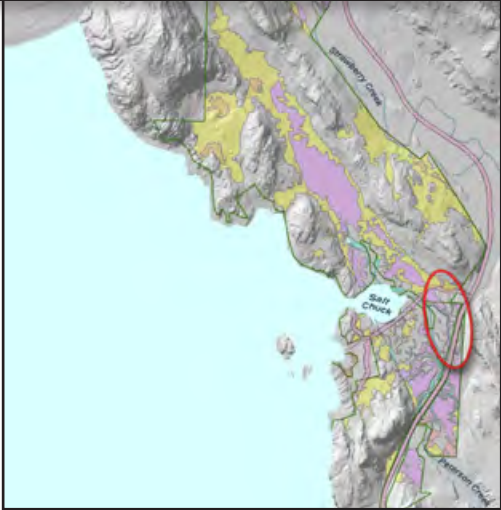


ER01 • type: uplift meadow • acres: 3.37 • boundary criteria: w-u, type • pin: 3B4001000050,
60 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Nesting Habitat	6.22	Higher	10.00	Higher
Waterbird Feeding Habitat	6.01	Higher	6.67	Higher
Songbird, Raptor, & Mammal Habitat	7.86	Higher	5.00	Moderate
Water Cooling	6.42	Higher	1.05	Lower
Native Plant Habitat	5.98	Higher	0.68	Lower
Amphibian Habitat	5.10	Moderate	7.32	Higher
Pollinator Habitat	5.69	Moderate	3.36	Moderate
Water Storage	4.28	Moderate	5.00	Moderate
Phosphorus Retention	3.70	Moderate	3.70	Moderate
Nitrate Removal	2.30	Moderate	3.28	Moderate
Water Warming	3.07	Moderate	1.90	Lower
Sediment Retention & Stabilization	2.83	Moderate	0.16	Lower
Organic Nutrient Export	7.07	Moderate	N.A.	N.A.
Carbon Sequestration	4.56	Moderate	N.A.	N.A.
Invertebrate Habitat	2.91	Lower	2.51	Lower
Stream Flow Support	1.13	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.03	Moderate
Wetland Risk	N.A.	N.A.	5.13	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.41	Moderate
Public Use & Recognition	N.A.	N.A.	2.92	Moderate
Wetland Sensitivity	N.A.	N.A.	3.01	Lower



Unit maps for ER01 02 03 05





ER02 • **type:** uplift meadow • **acres:** 1.8 • **boundary criteria:** w-u, pa • **pin:** 3B4001000040 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	6.33	Higher	7.00	Higher
Songbird, Raptor, & Mammal Habitat	7.30	Higher	5.00	Moderate
Water Storage	5.96	Higher	1.67	Lower
Carbon Sequestration	6.87	Higher	N.A.	N.A.
Resident Fish Habitat	7.09	Moderate	7.12	Higher
Amphibian Habitat	4.04	Moderate	7.07	Higher
Waterbird Nesting Habitat	3.86	Moderate	10.00	Higher
Pollinator Habitat	4.97	Moderate	3.36	Moderate
Native Plant Habitat	4.55	Moderate	2.72	Moderate
Anadromous Fish Habitat	4.28	Moderate	6.67	Moderate
Phosphorus Retention	3.83	Moderate	3.83	Moderate
Nitrate Removal	2.12	Moderate	3.54	Moderate
Water Cooling	4.28	Moderate	0.00	Lower
Water Warming	2.94	Moderate	0.00	Lower
Sediment Retention & Stabilization	2.59	Moderate	0.39	Lower
Invertebrate Habitat	2.75	Lower	3.77	Moderate
Stream Flow Support	0.42	Lower	0.00	Lower
Organic Nutrient Export	5.35	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	8.54	Higher
Wetland Ecological Condition	N.A.	N.A.	7.88	Higher
Wetland Stressors	N.A.	N.A.	7.37	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Public Use & Recognition	N.A.	N.A.	3.64	Moderate



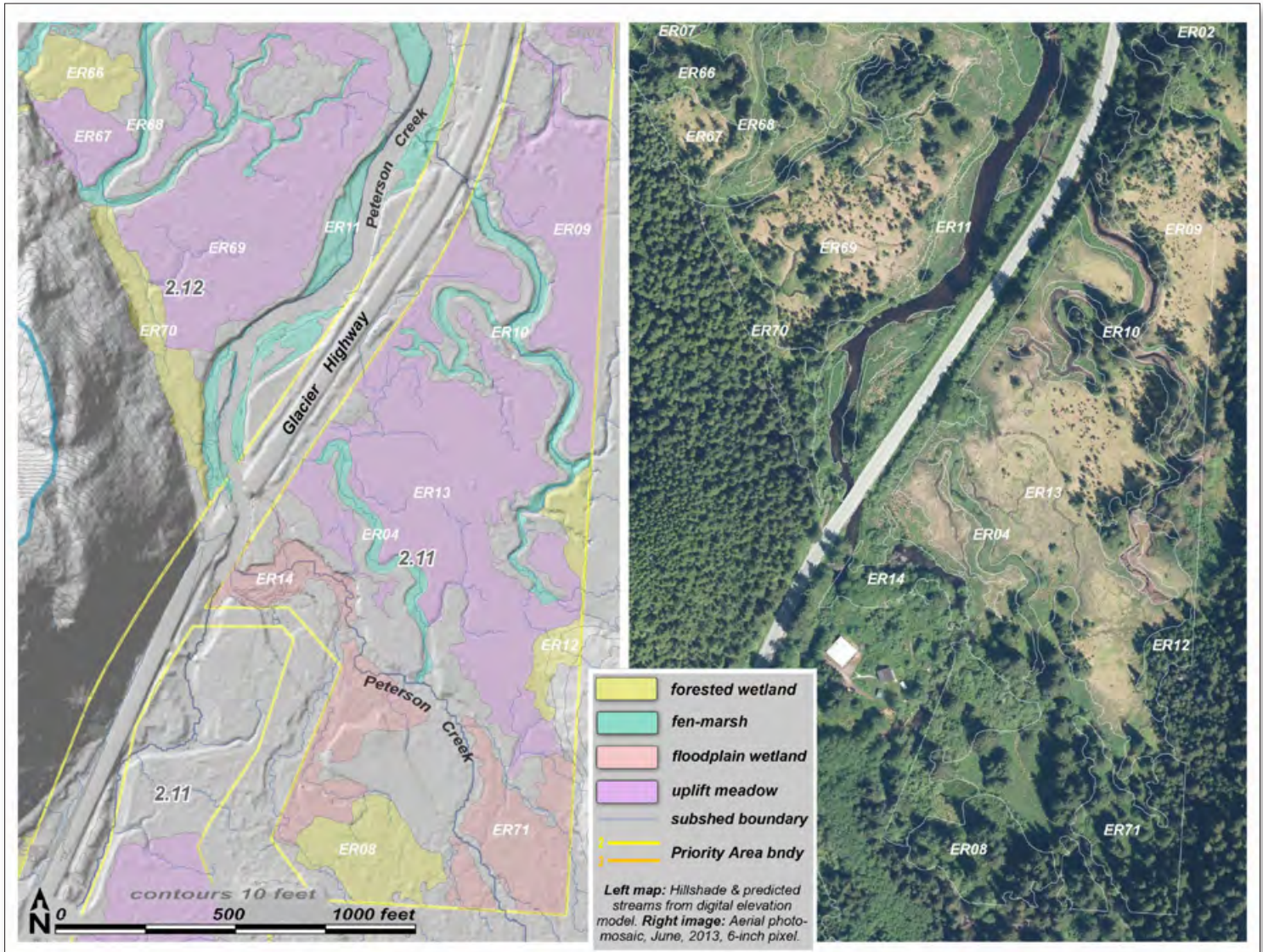
ER03 • type: uplift meadow • acres: 3.6 • boundary criteria: w-u, pa • pin: 3B4001040050 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	7.95	Higher	6.15	Higher
Waterbird Feeding Habitat	7.63	Higher	6.67	Higher
Waterbird Nesting Habitat	6.24	Higher	10.00	Higher
Water Warming	5.13	Higher	8.02	Higher
Phosphorus Retention	3.99	Higher	3.99	Higher
Anadromous Fish Habitat	9.00	Higher	6.67	Moderate
Water Cooling	4.28	Moderate	7.40	Higher
Stream Flow Support	3.28	Moderate	7.81	Higher
Nitrate Removal	2.11	Moderate	6.31	Higher
Invertebrate Habitat	3.60	Moderate	4.00	Moderate
Amphibian Habitat	4.17	Moderate	1.88	Lower
Organic Nutrient Export	6.63	Moderate	N.A.	N.A.
Pollinator Habitat	1.70	Lower	3.36	Moderate
Sediment Retention & Stabilization	1.59	Lower	2.62	Moderate
Native Plant Habitat	3.00	Lower	0.57	Lower
Water Storage	2.26	Lower	1.11	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	1.92	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	5.73	Moderate
Wetland Risk	N.A.	N.A.	4.28	Moderate
Public Use & Recognition	N.A.	N.A.	2.46	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.23	Lower
Wetland Sensitivity	N.A.	N.A.	1.08	Lower

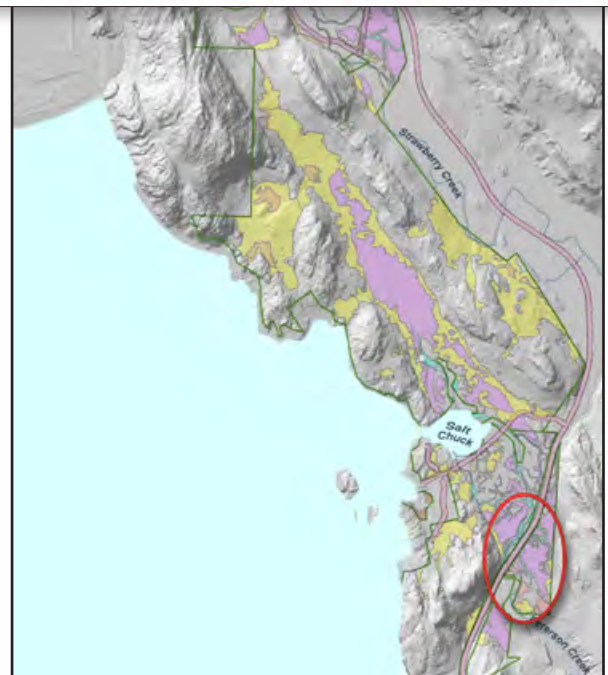


ER04 • **type:** fen/marsh • **acres:** 0.7 • **boundary criteria:** w-u, type • **pin:** 3B4001000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	7.70	Higher	8.00	Higher
Resident Fish Habitat	7.53	Higher	6.07	Higher
Water Cooling	6.51	Higher	6.26	Higher
Waterbird Nesting Habitat	5.78	Higher	10.00	Higher
Phosphorus Retention	5.33	Higher	5.33	Higher
Songbird, Raptor, & Mammal Habitat	7.17	Higher	5.00	Moderate
Amphibian Habitat	4.80	Moderate	7.90	Higher
Nitrate Removal	1.95	Moderate	6.31	Higher
Anadromous Fish Habitat	6.36	Moderate	6.67	Moderate
Invertebrate Habitat	4.82	Moderate	4.68	Moderate
Native Plant Habitat	4.48	Moderate	1.98	Moderate
Sediment Retention & Stabilization	3.73	Moderate	2.21	Moderate
Water Warming	3.19	Moderate	4.05	Moderate
Water Storage	3.71	Moderate	1.11	Lower
Organic Nutrient Export	6.66	Moderate	N.A.	N.A.
Carbon Sequestration	5.55	Moderate	N.A.	N.A.
Stream Flow Support	2.27	Lower	6.98	Higher
Pollinator Habitat	1.56	Lower	3.36	Moderate
Public Use & Recognition	N.A.	N.A.	6.73	Higher
Wetland Stressors	N.A.	N.A.	7.26	Moderate
Wetland Risk	N.A.	N.A.	4.91	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Ecological Condition	N.A.	N.A.	0.00	Lower



Unit maps for ER04 18 09 10 11 12 13
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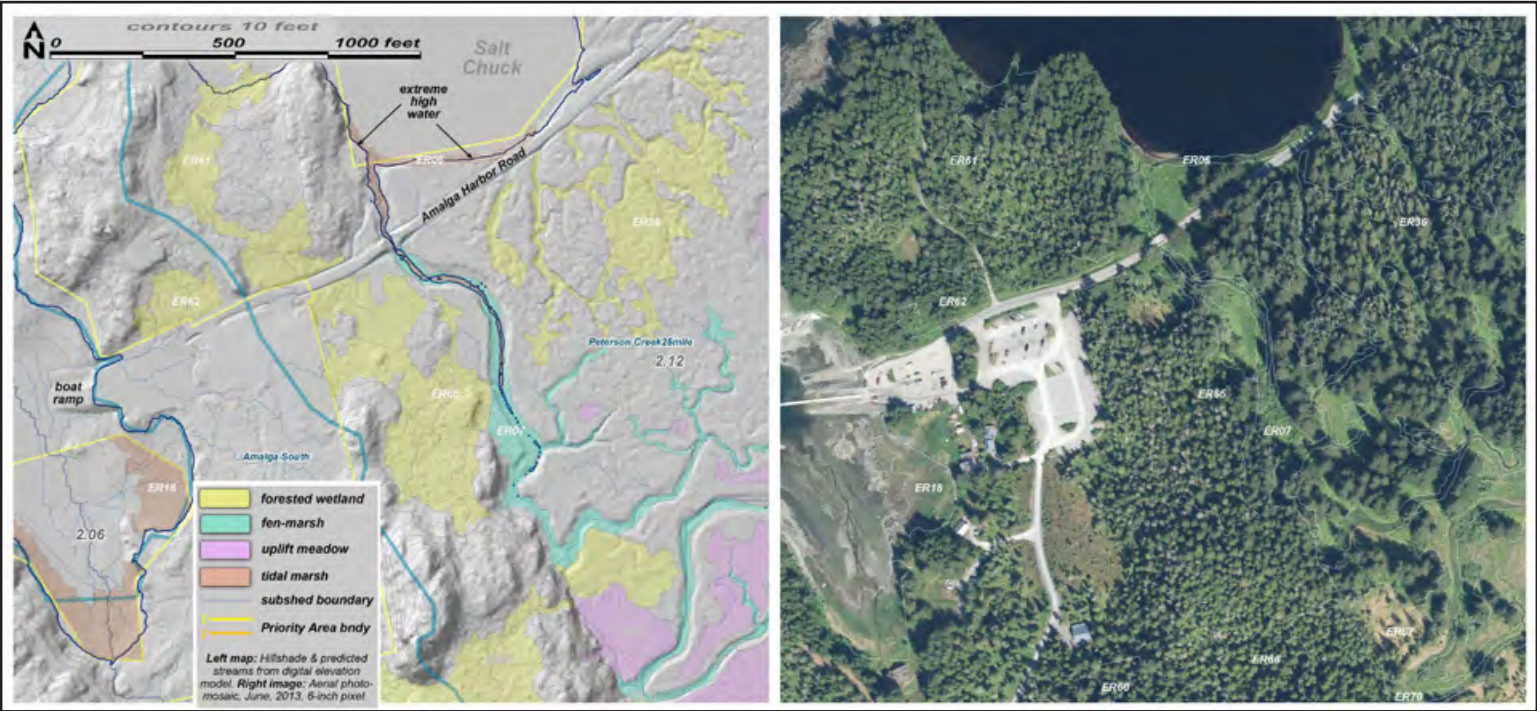


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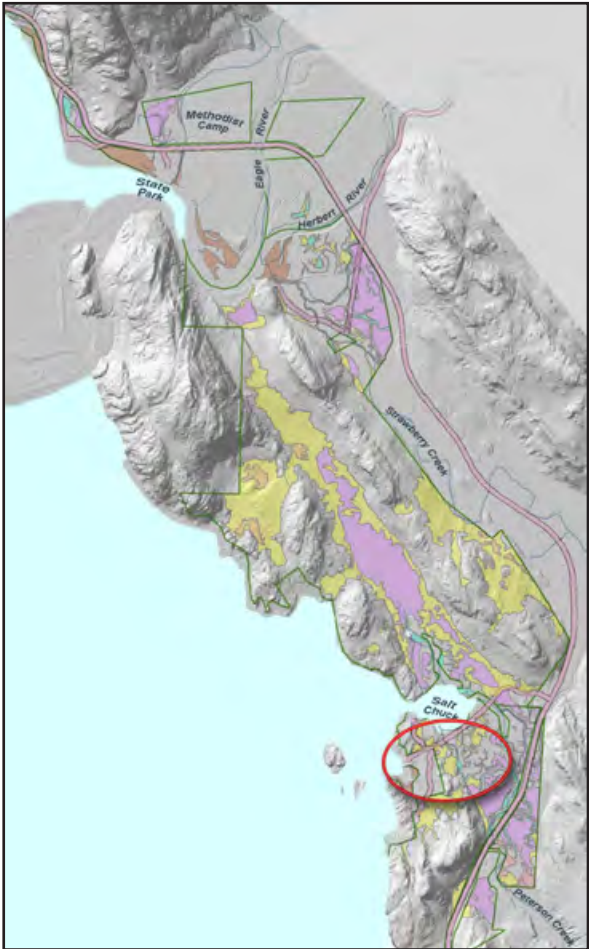


ER05 • **type:** forested peatland • **acres:** 1.8 • **boundary criteria:** w-u, subsh, pa • **pin:** 3B4201000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	10.00	Higher	6.60	Higher
Stream Flow Support	9.16	Higher	7.71	Higher
Resident Fish Habitat	7.92	Higher	6.54	Higher
Water Warming	6.25	Higher	5.77	Higher
Phosphorus Retention	4.89	Higher	4.89	Higher
Nitrate Removal	3.73	Higher	10.00	Higher
Anadromous Fish Habitat	8.17	Higher	6.67	Moderate
Pollinator Habitat	7.33	Higher	4.34	Moderate
Songbird, Raptor, & Mammal Habitat	7.83	Higher	2.50	Lower
Amphibian Habitat	7.13	Higher	3.19	Lower
Organic Nutrient Export	7.96	Higher	N.A.	N.A.
Native Plant Habitat	4.85	Moderate	2.74	Moderate
Invertebrate Habitat	4.63	Moderate	4.04	Moderate
Sediment Retention & Stabilization	3.08	Moderate	3.02	Moderate
Water Storage	4.76	Moderate	1.11	Lower
Waterbird Nesting Habitat	3.30	Moderate	0.00	Lower
Carbon Sequestration	3.95	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	8.65	Higher
Wetland Risk	N.A.	N.A.	5.99	Moderate
Public Use & Recognition	N.A.	N.A.	3.09	Moderate
Wetland Stressors	N.A.	N.A.	4.65	Lower
Wetland Sensitivity	N.A.	N.A.	4.30	Lower



Unit maps for ER06 07 18 36 61 62 65





ER07 • **type:** fen/marsh • **acres:** 2.2 • **boundary criteria:** w-u, type • **pin:** 3B4001000060 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	7.63	Higher	10.00	Higher
Waterbird Feeding Habitat	7.09	Higher	8.00	Higher
Waterbird Nesting Habitat	6.54	Higher	10.00	Higher
Amphibian Habitat	5.63	Higher	7.65	Higher
Phosphorus Retention	4.34	Higher	4.34	Higher
Nitrate Removal	4.01	Higher	6.31	Higher
Native Plant Habitat	9.48	Higher	2.78	Moderate
Songbird, Raptor, & Mammal Habitat	7.38	Higher	5.00	Moderate
Invertebrate Habitat	6.53	Higher	4.99	Moderate
Water Cooling	6.03	Higher	2.66	Moderate
Organic Nutrient Export	8.58	Higher	N.A.	N.A.
Anadromous Fish Habitat	7.26	Moderate	8.67	Higher
Pollinator Habitat	5.15	Moderate	3.36	Moderate
Sediment Retention & Stabilization	3.91	Moderate	2.85	Moderate
Water Storage	4.58	Moderate	1.11	Lower
Water Warming	3.57	Moderate	1.64	Lower
Carbon Sequestration	4.12	Moderate	N.A.	N.A.
Stream Flow Support	3.20	Lower	7.67	Higher
Wetland Stressors	N.A.	N.A.	8.08	Higher
Wetland Risk	N.A.	N.A.	6.73	Higher
Wetland Sensitivity	N.A.	N.A.	5.97	Moderate
Public Use & Recognition	N.A.	N.A.	2.48	Moderate



ER08 • **type:** forested peatland • **acres:** 1.8 • **boundary criteria:** w-u, type, pa • **pin:** 3B4001000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	8.44	Higher	8.17	Higher
Songbird, Raptor, & Mammal Habitat	7.53	Higher	7.33	Higher
Water Cooling	7.51	Higher	7.16	Higher
Resident Fish Habitat	7.48	Higher	9.42	Higher
Native Plant Habitat	5.86	Higher	6.14	Higher
Sediment Retention & Stabilization	4.88	Higher	2.99	Moderate
Water Storage	5.90	Higher	0.56	Lower
Stream Flow Support	4.29	Moderate	7.17	Higher
Nitrate Removal	3.11	Moderate	6.57	Higher
Amphibian Habitat	2.90	Moderate	6.67	Higher
Phosphorus Retention	3.55	Moderate	3.55	Moderate
Waterbird Nesting Habitat	3.98	Moderate	0.00	Lower
Organic Nutrient Export	6.57	Moderate	N.A.	N.A.
Pollinator Habitat	3.09	Lower	7.28	Higher
Invertebrate Habitat	2.23	Lower	10.00	Higher
Water Warming	1.26	Lower	7.11	Higher
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.83	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	7.22	Higher
Wetland Stressors	N.A.	N.A.	7.05	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.68	Moderate
Public Use & Recognition	N.A.	N.A.	2.53	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower



ER09 • **type:** uplift meadow
 • **acres:** 3.7 • **bound-**
ary criteria: w-u, pa • **pin:**
 3B4001000020, 30 • no known
 or probable anadromous fish

probable error- recalculate?

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	6.71	Higher	6.67	Higher
Phosphorus Retention	4.20	Higher	4.20	Higher
Sediment Retention & Stabilization	6.22	Higher	0.26	Lower
Carbon Sequestration	7.09	Higher	N.A.	N.A.
Resident Fish Habitat	6.61	Moderate	7.12	Higher
Songbird, Raptor, & Mammal Habitat	5.19	Moderate	5.00	Moderate
Amphibian Habitat	4.36	Moderate	5.57	Moderate
Water Cooling	4.60	Moderate	0.00	Lower
Native Plant Habitat	3.23	Moderate	1.43	Lower
Pollinator Habitat	1.77	Lower	3.36	Moderate
Water Storage	2.56	Lower	1.67	Lower
Invertebrate Habitat	1.88	Lower	2.23	Lower
Nitrate Removal	1.84	Lower	3.03	Lower
Stream Flow Support	0.50	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.51	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.61	Higher
Wetland Stressors	N.A.	N.A.	7.13	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.14	Moderate
Public Use & Recognition	N.A.	N.A.	3.06	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower



ER10 • **type:** fen/marsh
 • **acres:** 1.54 • **boundary**
criteria: w-u, type, pa • **pin:**
 3B4001000010, 20, 30 • **known**
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	9.37	Higher	6.67	Higher
Water Warming	8.07	Higher	8.04	Higher
Resident Fish Habitat	7.62	Higher	7.38	Higher
Waterbird Nesting Habitat	7.09	Higher	10.00	Higher
Phosphorus Retention	4.99	Higher	4.99	Higher
Nitrate Removal	4.25	Higher	6.06	Higher
Anadromous Fish Habitat	8.76	Higher	6.67	Moderate
Invertebrate Habitat	3.80	Moderate	4.27	Moderate
Sediment Retention & Stabilization	3.40	Moderate	2.79	Moderate
Water Storage	4.74	Moderate	1.11	Lower
Amphibian Habitat	4.30	Moderate	3.07	Lower
Organic Nutrient Export	6.31	Moderate	N.A.	N.A.
Stream Flow Support	2.27	Lower	7.65	Higher
Water Cooling	2.04	Lower	7.29	Higher
Native Plant Habitat	2.09	Lower	0.57	Lower
Pollinator Habitat	0.00	Lower	0.00	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	1.40	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.82	Moderate
Wetland Risk	N.A.	N.A.	4.89	Moderate
Public Use & Recognition	N.A.	N.A.	3.25	Moderate
Wetland Sensitivity	N.A.	N.A.	1.40	Lower
Wetland Ecological Condition	N.A.	N.A.	1.01	Lower



ER11 • **type:** fen/marsh • **acres:** 2.0 • **boundary criteria:** w-u, type, pa • **pin:** 3B4001000060 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	9.44	Higher	7.83	Higher
Waterbird Feeding Habitat	8.55	Higher	8.00	Higher
Resident Fish Habitat	8.47	Higher	9.04	Higher
Stream Flow Support	6.91	Higher	8.21	Higher
Amphibian Habitat	5.28	Higher	8.93	Higher
Nitrate Removal	4.30	Higher	6.57	Higher
Songbird, Raptor, & Mammal Habitat	7.71	Higher	5.00	Moderate
Sediment Retention & Stabilization	4.24	Higher	2.94	Moderate
Water Storage	6.00	Higher	0.56	Lower
Waterbird Nesting Habitat	5.60	Moderate	10.00	Higher
Water Cooling	4.69	Moderate	7.59	Higher
Water Warming	2.06	Moderate	8.16	Higher
Pollinator Habitat	5.88	Moderate	3.36	Moderate
Invertebrate Habitat	4.00	Moderate	5.54	Moderate
Phosphorus Retention	3.83	Moderate	3.83	Moderate
Native Plant Habitat	4.56	Moderate	0.67	Lower
Organic Nutrient Export	6.46	Moderate	N.A.	N.A.
Carbon Sequestration	4.42	Moderate	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	6.20	Moderate
Wetland Risk	N.A.	N.A.	4.99	Moderate
Public Use & Recognition	N.A.	N.A.	3.85	Moderate



ER12 • **type:** forested peatland • **acres:** 1.0 • **boundary criteria:** w-u, type, pa • **pin:** 3B4001000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	7.19	Higher	6.67	Higher
Nitrate Removal	3.80	Higher	6.82	Higher
Resident Fish Habitat	8.05	Higher	5.66	Moderate
Sediment Retention & Stabilization	5.15	Higher	3.04	Moderate
Water Storage	6.95	Higher	1.11	Lower
Waterbird Nesting Habitat	4.88	Moderate	10.00	Higher
Anadromous Fish Habitat	4.94	Moderate	6.67	Moderate
Water Cooling	4.85	Moderate	2.26	Moderate
Water Warming	4.12	Moderate	4.96	Moderate
Invertebrate Habitat	3.67	Moderate	2.96	Moderate
Phosphorus Retention	2.87	Moderate	2.87	Moderate
Native Plant Habitat	3.99	Moderate	0.57	Lower
Organic Nutrient Export	6.98	Moderate	N.A.	N.A.
Carbon Sequestration	4.72	Moderate	N.A.	N.A.
Stream Flow Support	2.39	Lower	6.42	Higher
Amphibian Habitat	2.72	Lower	1.67	Lower
Pollinator Habitat	0.12	Lower	0.00	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.91	Higher
Wetland Ecological Condition	N.A.	N.A.	6.32	Higher
Wetland Stressors	N.A.	N.A.	6.49	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.54	Lower

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ER13 • **type:** uplift meadow • **acres:** 10.5 • **boundary criteria:** w-u, type, pa • **pin:** 3B4001000010, 20, 30 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	7.92	Higher	6.77	Higher
Waterbird Feeding Habitat	6.24	Higher	8.00	Higher
Nitrate Removal	3.96	Higher	6.57	Higher
Phosphorus Retention	3.96	Higher	3.96	Higher
Native Plant Habitat	7.11	Higher	2.47	Moderate
Songbird, Raptor, & Mammal Habitat	7.02	Higher	5.00	Moderate
Water Warming	5.97	Higher	5.10	Moderate
Water Storage	6.25	Higher	1.11	Lower
Resident Fish Habitat	6.79	Moderate	7.12	Higher
Waterbird Nesting Habitat	5.47	Moderate	10.00	Higher
Pollinator Habitat	4.15	Moderate	3.36	Moderate
Sediment Retention & Stabilization	3.98	Moderate	2.84	Moderate
Water Cooling	4.28	Moderate	0.94	Lower
Organic Nutrient Export	6.16	Moderate	N.A.	N.A.
Carbon Sequestration	5.22	Moderate	N.A.	N.A.
Invertebrate Habitat	3.05	Lower	4.08	Moderate
Anadromous Fish Habitat	2.76	Lower	6.67	Moderate
Stream Flow Support	0.84	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	9.01	Higher
Wetland Stressors	N.A.	N.A.	8.61	Higher
Wetland Ecological Condition	N.A.	N.A.	5.99	Higher
Public Use & Recognition	N.A.	N.A.	4.13	Moderate
Wetland Sensitivity	N.A.	N.A.	2.83	Lower



ER14 • **type:** floodplain
wetland • **acres:** 1.0 •
boundary criteria: w-u, type, pa
• **pin:** 3B4001000010 • known
or probable anadromous fish

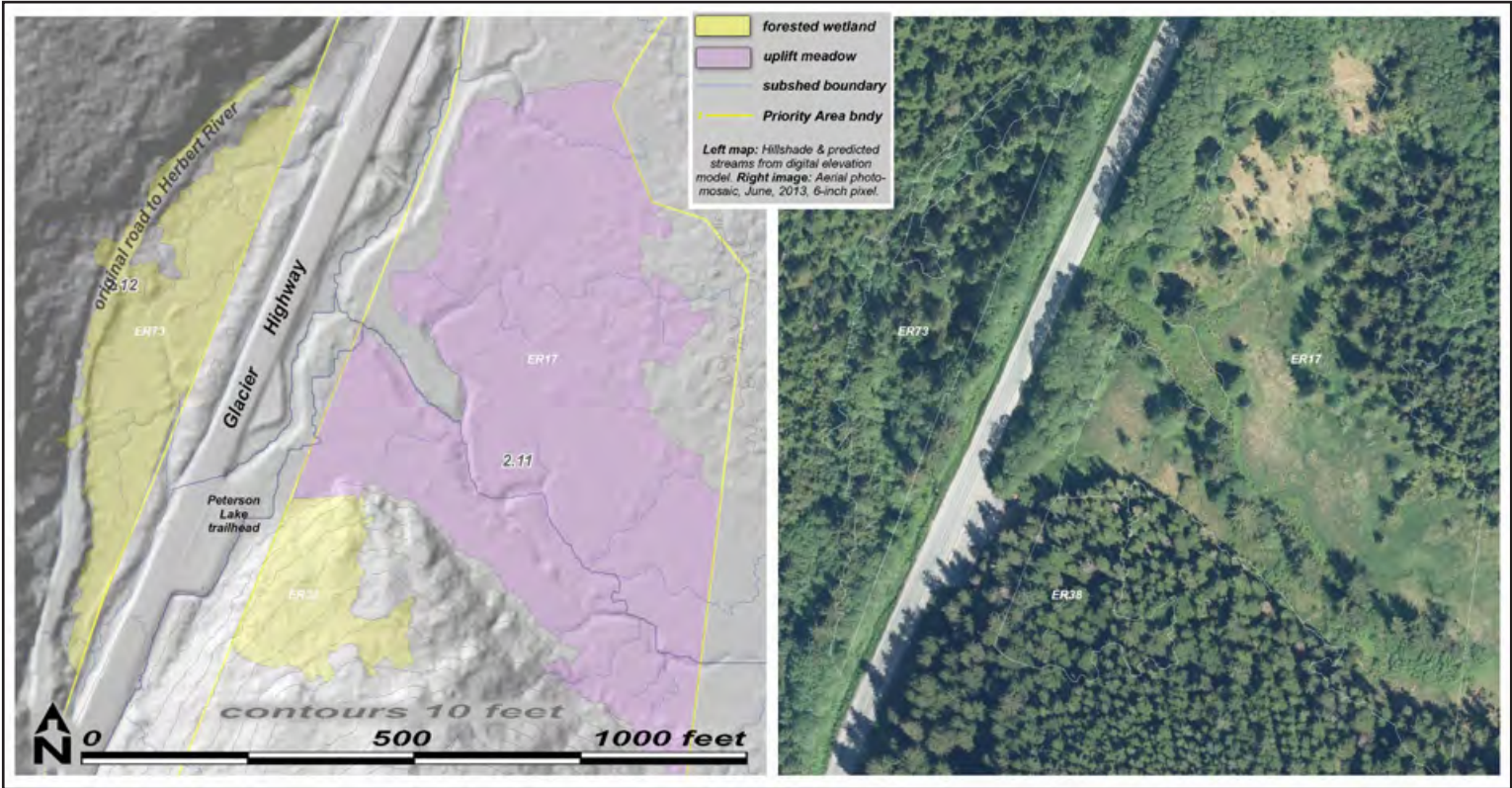
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	8.69	Higher	8.67	Higher
Resident Fish Habitat	7.58	Higher	10.00	Higher
Waterbird Feeding Habitat	6.97	Higher	8.00	Higher
Nitrate Removal	3.48	Higher	6.82	Higher
Songbird, Raptor, & Mammal Habitat	7.48	Higher	5.00	Moderate
Sediment Retention & Stabilization	4.32	Higher	3.04	Moderate
Native Plant Habitat	5.97	Higher	0.57	Lower
Water Storage	5.59	Higher	0.56	Lower
Water Cooling	4.98	Moderate	7.26	Higher
Waterbird Nesting Habitat	4.94	Moderate	10.00	Higher
Stream Flow Support	4.08	Moderate	7.62	Higher
Water Warming	2.69	Moderate	7.54	Higher
Invertebrate Habitat	3.84	Moderate	4.41	Moderate
Phosphorus Retention	2.98	Moderate	2.98	Moderate
Organic Nutrient Export	6.35	Moderate	N.A.	N.A.
Carbon Sequestration	4.18	Moderate	N.A.	N.A.
Amphibian Habitat	0.41	Lower	7.65	Higher
Pollinator Habitat	4.01	Lower	3.36	Moderate
Wetland Stressors	N.A.	N.A.	6.43	Moderate
Wetland Risk	N.A.	N.A.	4.71	Moderate
Public Use & Recognition	N.A.	N.A.	4.13	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Ecological Condition	N.A.	N.A.	1.53	Lower

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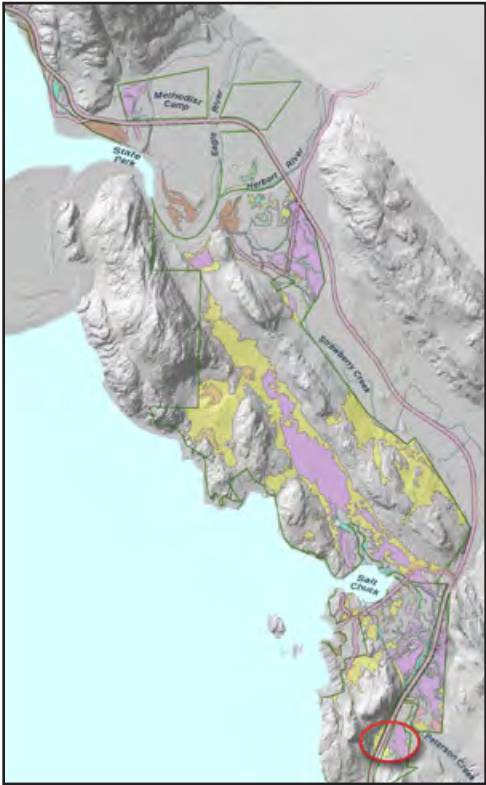


ER17 • **type:** uplift meadow • **acres:** 7.7 • **boundary criteria:** w-u, type, pa • **pin:** 3B4001000080
 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	7.15	Higher	6.67	Higher
Phosphorus Retention	4.15	Higher	4.15	Higher
Nitrate Removal	3.58	Higher	6.77	Higher
Songbird, Raptor, & Mammal Habitat	7.20	Higher	5.00	Moderate
Water Storage	5.25	Higher	1.11	Lower
Resident Fish Habitat	6.62	Moderate	7.12	Higher
Waterbird Nesting Habitat	5.40	Moderate	10.00	Higher
Amphibian Habitat	4.20	Moderate	7.55	Higher
Anadromous Fish Habitat	6.32	Moderate	6.67	Moderate
Native Plant Habitat	5.10	Moderate	2.63	Moderate
Water Cooling	5.06	Moderate	2.50	Moderate
Pollinator Habitat	4.69	Moderate	3.36	Moderate
Water Warming	3.15	Moderate	5.09	Moderate
Sediment Retention & Stabilization	2.76	Moderate	2.37	Moderate
Organic Nutrient Export	6.48	Moderate	N.A.	N.A.
Carbon Sequestration	4.72	Moderate	N.A.	N.A.
Stream Flow Support	1.26	Lower	5.91	Higher
Invertebrate Habitat	1.12	Lower	4.35	Moderate
Wetland Risk	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	10.00	Higher
Wetland Ecological Condition	N.A.	N.A.	4.91	Moderate
Public Use & Recognition	N.A.	N.A.	2.83	Moderate
Wetland Sensitivity	N.A.	N.A.	2.83	Lower



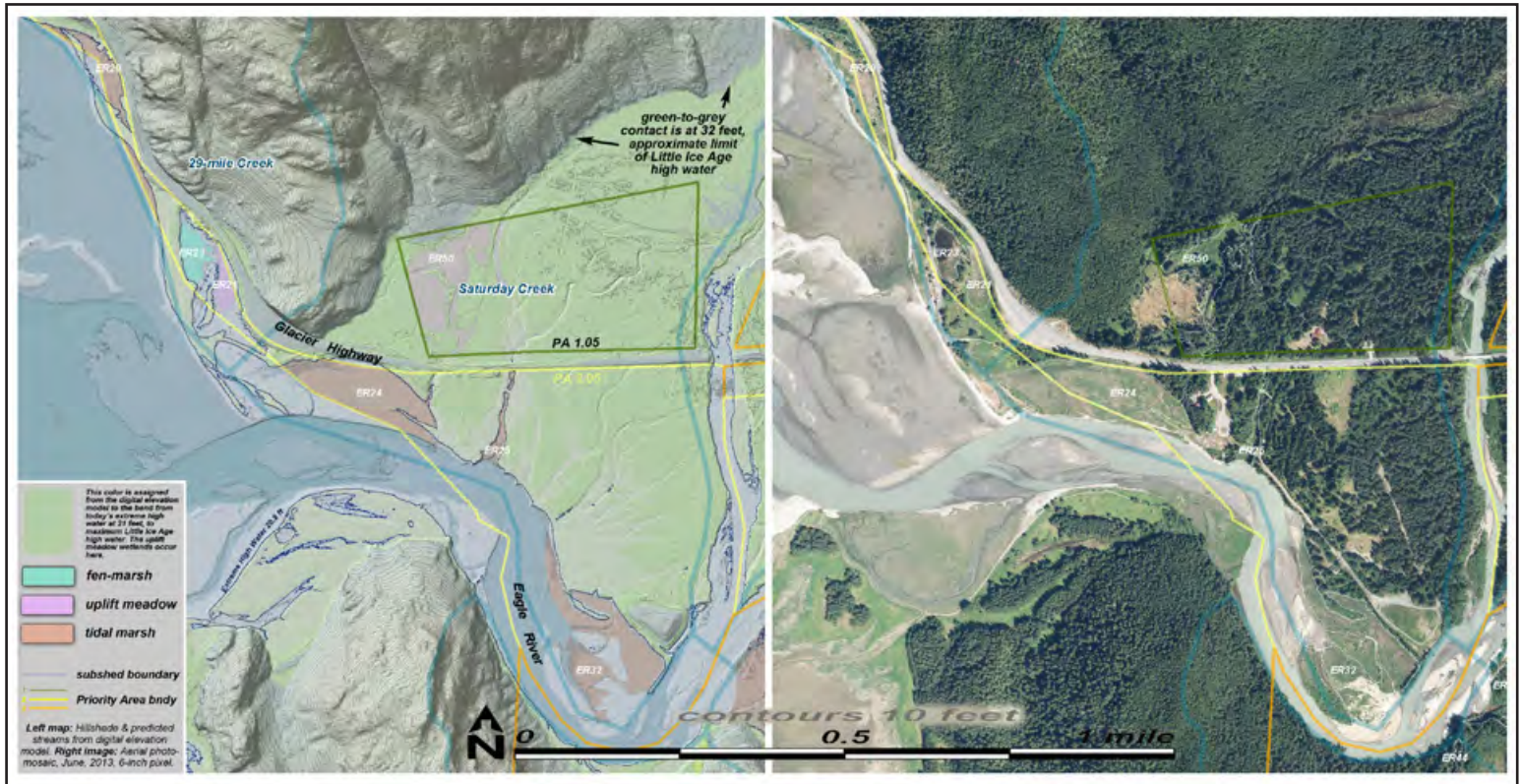
Unit maps for ER17 38 73



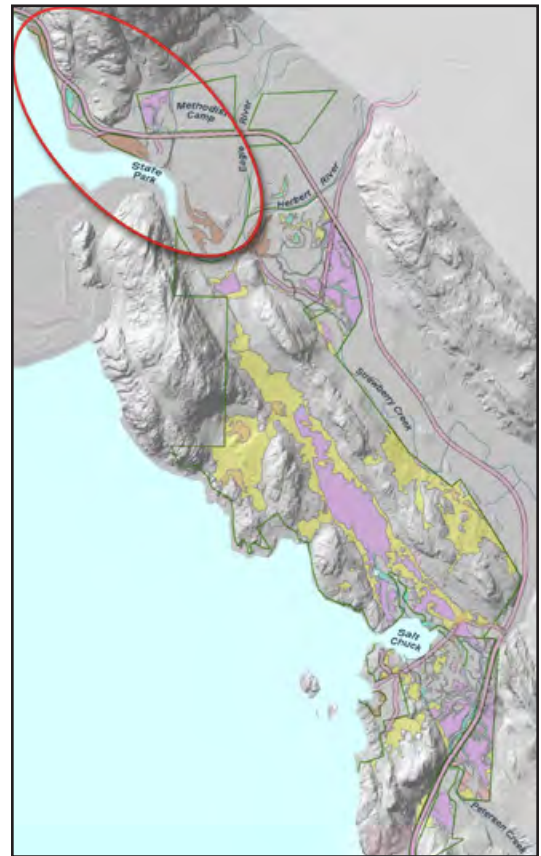


ER21 • **type:** uplift meadow • **acres:** 1.2 • **boundary criteria:** w-u, pa • **pin:** 3B4404000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Nesting Habitat	6.69	Higher	10.00	Higher
Nitrate Removal	3.78	Higher	5.96	Higher
Songbird, Raptor, & Mammal Habitat	8.56	Higher	4.17	Moderate
Pollinator Habitat	7.90	Higher	3.36	Moderate
Native Plant Habitat	6.23	Higher	3.70	Moderate
Waterbird Feeding Habitat	5.94	Moderate	6.67	Higher
Water Storage	5.03	Moderate	7.78	Higher
Amphibian Habitat	3.12	Moderate	7.86	Higher
Sediment Retention & Stabilization	3.57	Moderate	6.27	Moderate
Water Warming	3.36	Moderate	4.82	Moderate
Phosphorus Retention	2.64	Moderate	2.64	Moderate
Invertebrate Habitat	4.04	Moderate	2.46	Lower
Water Cooling	3.93	Moderate	0.00	Lower
Stream Flow Support	0.21	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.54	Lower	N.A.	N.A.
Carbon Sequestration	3.87	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.67	Higher
Wetland Stressors	N.A.	N.A.	7.26	Moderate
Wetland Sensitivity	N.A.	N.A.	4.80	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.96	Moderate
Public Use & Recognition	N.A.	N.A.	3.55	Moderate



Unit maps for ER 21 23 24 25 32 50

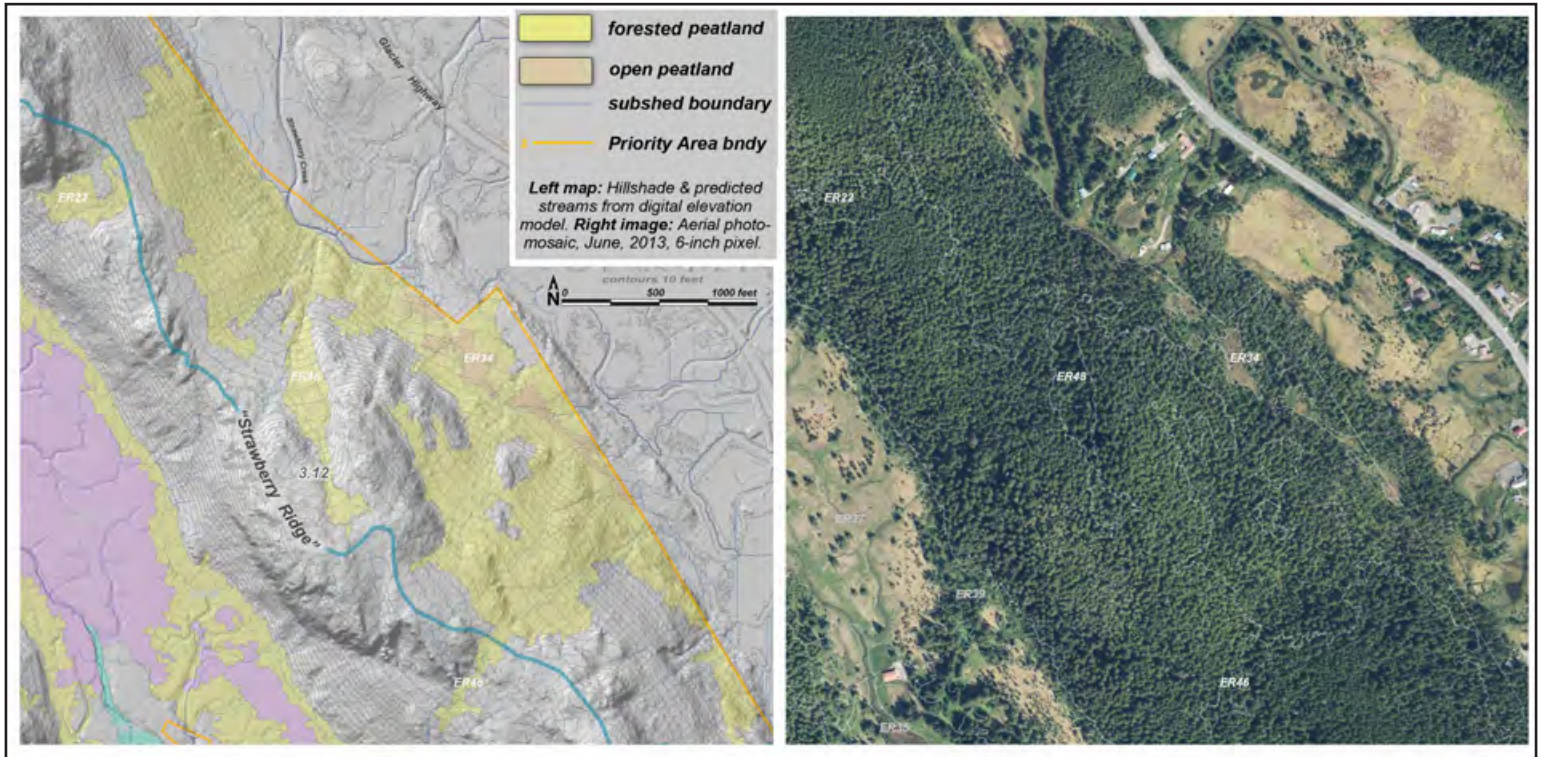


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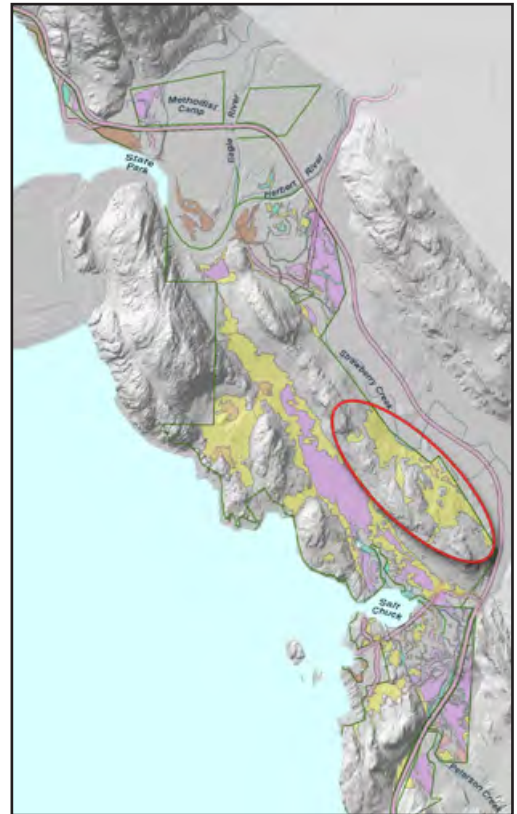


ER22 • **type:** for. peatland
 • **acres:** 1.2 • **boundary**
criteria: w-u, subsh • **pin:**
 3B4101000010 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.88	Higher	3.36	Moderate
Native Plant Habitat	5.61	Higher	2.13	Moderate
Songbird, Raptor, & Mammal Habitat	10.00	Higher	1.67	Lower
Invertebrate Habitat	7.72	Higher	1.69	Lower
Water Warming	7.00	Higher	2.61	Lower
Water Cooling	6.51	Higher	1.26	Lower
Organic Nutrient Export	7.80	Higher	N.A.	N.A.
Amphibian Habitat	4.15	Moderate	5.00	Moderate
Stream Flow Support	3.61	Moderate	2.78	Moderate
Phosphorus Retention	3.57	Moderate	3.57	Moderate
Waterbird Nesting Habitat	4.31	Moderate	0.00	Lower
Water Storage	3.40	Moderate	1.11	Lower
Nitrate Removal	2.66	Moderate	2.32	Lower
Carbon Sequestration	4.80	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.43	Lower	0.52	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.62	Higher
Wetland Stressors	N.A.	N.A.	7.28	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.78	Moderate
Public Use & Recognition	N.A.	N.A.	2.10	Lower



Unit maps for ER22 35 46 48



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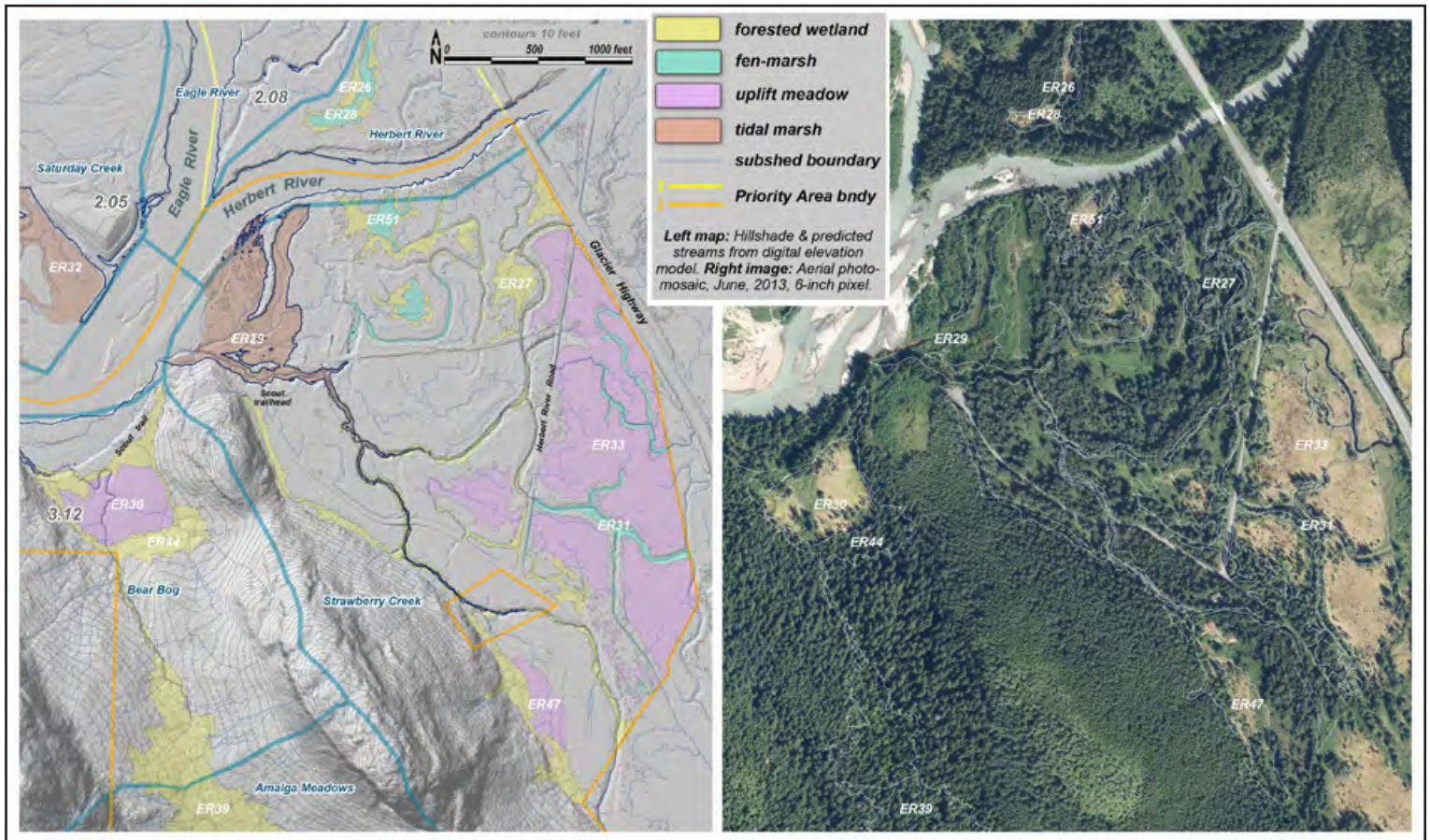
ER23 • **type:** fen/marsh • **acres:** 1.2 • **boundary criteria:** w-u • **pin:** 3B4404000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	7.05	Higher	6.67	Higher
Waterbird Nesting Habitat	6.79	Higher	10.00	Higher
Nitrate Removal	4.42	Higher	5.76	Higher
Sediment Retention & Stabilization	5.51	Higher	5.33	Moderate
Amphibian Habitat	5.47	Higher	5.19	Moderate
Native Plant Habitat	6.10	Higher	0.57	Lower
Water Storage	4.73	Moderate	7.08	Moderate
Songbird, Raptor, & Mammal Habitat	4.45	Moderate	4.17	Moderate
Water Warming	4.03	Moderate	5.14	Moderate
Water Cooling	5.24	Moderate	0.44	Lower
Invertebrate Habitat	3.79	Moderate	2.22	Lower
Pollinator Habitat	2.19	Lower	3.36	Moderate
Stream Flow Support	1.51	Lower	1.59	Moderate
Phosphorus Retention	1.75	Lower	1.75	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.43	Lower	N.A.	N.A.
Carbon Sequestration	2.57	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.72	Higher
Wetland Stressors	N.A.	N.A.	7.26	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.07	Moderate
Public Use & Recognition	N.A.	N.A.	3.55	Moderate
Wetland Sensitivity	N.A.	N.A.	2.83	Lower

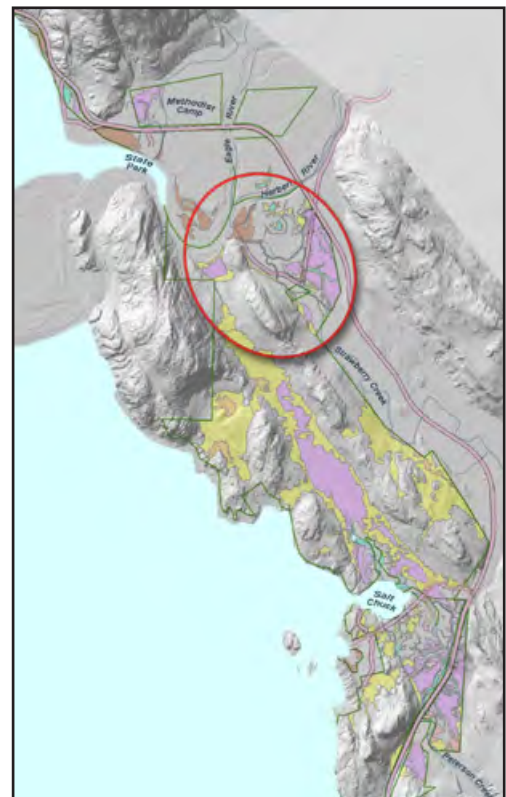


ER26 • **type:** forested peatland • **acres:** 1.2 • **boundary criteria:** w-u, type • **pin:** 3B4404000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	3.99	Higher	3.99	Higher
Songbird, Raptor, & Mammal Habitat	7.87	Higher	2.22	Lower
Pollinator Habitat	5.34	Moderate	3.29	Moderate
Water Storage	4.09	Moderate	5.00	Moderate
Nitrate Removal	3.11	Moderate	3.99	Moderate
Water Cooling	4.21	Moderate	1.23	Lower
Waterbird Nesting Habitat	3.70	Moderate	0.00	Lower
Water Warming	2.44	Moderate	2.01	Lower
Organic Nutrient Export	6.72	Moderate	N.A.	N.A.
Carbon Sequestration	5.88	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.14	Lower	2.09	Moderate
Stream Flow Support	2.04	Lower	1.59	Moderate
Native Plant Habitat	2.65	Lower	0.59	Lower
Amphibian Habitat	2.14	Lower	3.22	Lower
Invertebrate Habitat	1.84	Lower	1.04	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.68	Moderate
Wetland Risk	N.A.	N.A.	5.06	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	2.05	Lower
Wetland Ecological Condition	N.A.	N.A.	1.70	Lower



Unit maps for ER26 27 28 29 30 31 32
33 44 47





ER27 • **type:** forested peatland • **acres:** 14.0 • **boundary criteria:** w-u, type, pa • **pin:** 3B4301000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	7.73	Higher	7.80	Higher
Water Warming	7.02	Higher	8.37	Higher
Water Cooling	5.52	Higher	7.43	Higher
Phosphorus Retention	4.68	Higher	4.68	Higher
Nitrate Removal	3.29	Higher	6.31	Higher
Anadromous Fish Habitat	9.08	Higher	6.67	Moderate
Resident Fish Habitat	7.69	Higher	4.42	Moderate
Amphibian Habitat	6.92	Higher	2.09	Lower
Water Storage	5.74	Higher	0.56	Lower
Waterbird Nesting Habitat	5.71	Higher	0.00	Lower
Sediment Retention & Stabilization	4.00	Moderate	2.40	Moderate
Invertebrate Habitat	3.88	Moderate	4.24	Moderate
Songbird, Raptor, & Mammal Habitat	6.51	Moderate	1.67	Lower
Native Plant Habitat	5.00	Moderate	0.57	Lower
Organic Nutrient Export	6.45	Moderate	N.A.	N.A.
Carbon Sequestration	4.35	Moderate	N.A.	N.A.
Pollinator Habitat	3.98	Lower	3.36	Moderate
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	7.49	Higher
Wetland Risk	N.A.	N.A.	7.42	Higher
Wetland Ecological Condition	N.A.	N.A.	6.02	Higher
Wetland Stressors	N.A.	N.A.	7.10	Moderate
Wetland Sensitivity	N.A.	N.A.	2.47	Lower



ER28 • **type:** fen/marsh •
acres: 1.0 • **boundary criteria:**
 type • **pin:** 3B4404000010 • no
 known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.80	Higher	7.67	Higher
Waterbird Nesting Habitat	8.00	Higher	10.00	Higher
Phosphorus Retention	4.11	Higher	4.11	Higher
Waterbird Feeding Habitat	7.40	Higher	4.33	Moderate
Water Warming	5.15	Higher	1.31	Lower
Nitrate Removal	3.39	Higher	0.96	Lower
Amphibian Habitat	5.16	Moderate	9.05	Higher
Invertebrate Habitat	4.03	Moderate	10.00	Higher
Native Plant Habitat	3.76	Moderate	7.24	Higher
Water Storage	4.64	Moderate	5.00	Moderate
Sediment Retention & Stabilization	4.08	Moderate	0.12	Lower
Water Cooling	3.52	Moderate	1.05	Lower
Organic Nutrient Export	6.92	Moderate	N.A.	N.A.
Carbon Sequestration	4.56	Moderate	N.A.	N.A.
Pollinator Habitat	3.82	Lower	8.05	Higher
Stream Flow Support	2.65	Lower	2.03	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.71	Moderate
Wetland Risk	N.A.	N.A.	5.49	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower
Wetland Ecological Condition	N.A.	N.A.	2.60	Lower
Public Use & Recognition	N.A.	N.A.	2.05	Lower



ER30 • **type:** uplift meadow • **acres:** 4.4 • **boundary criteria:** type • **pin:** 3B4301000030 • **no** known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	8.52	Higher	7.06	Higher
Waterbird Nesting Habitat	7.19	Higher	9.90	Higher
Phosphorus Retention	4.77	Higher	4.77	Higher
Songbird, Raptor, & Mammal Habitat	7.64	Higher	3.73	Moderate
Water Warming	7.56	Higher	4.45	Moderate
Native Plant Habitat	5.99	Higher	2.75	Moderate
Water Cooling	5.49	Higher	3.07	Moderate
Invertebrate Habitat	5.34	Higher	2.97	Moderate
Waterbird Feeding Habitat	5.90	Moderate	5.98	Higher
Water Storage	4.92	Moderate	10.00	Higher
Stream Flow Support	5.21	Moderate	2.30	Moderate
Pollinator Habitat	4.65	Moderate	3.32	Moderate
Sediment Retention & Stabilization	4.10	Moderate	3.91	Moderate
Nitrate Removal	2.64	Moderate	4.49	Moderate
Organic Nutrient Export	6.35	Moderate	N.A.	N.A.
Carbon Sequestration	4.02	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	7.40	Higher
Wetland Stressors	N.A.	N.A.	7.33	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.43	Moderate
Public Use & Recognition	N.A.	N.A.	2.91	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower



ER31 • **type:** fen/marsh
 • **acres:** 2.7 • **boundary**
criteria: w-u, type, pa • **pin:**
 3B4301000010 • known or prob-
 able anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	9.16	Higher	6.61	Higher
Resident Fish Habitat	9.15	Higher	6.89	Higher
Waterbird Nesting Habitat	8.16	Higher	10.00	Higher
Stream Flow Support	7.11	Higher	8.94	Higher
Phosphorus Retention	4.09	Higher	4.09	Higher
Nitrate Removal	3.28	Higher	6.82	Higher
Anadromous Fish Habitat	9.53	Higher	6.67	Moderate
Waterbird Feeding Habitat	8.74	Higher	4.00	Moderate
Invertebrate Habitat	6.34	Higher	5.99	Moderate
Water Warming	4.75	Moderate	7.91	Higher
Water Cooling	4.57	Moderate	7.63	Higher
Songbird, Raptor, & Mammal Habitat	4.77	Moderate	3.75	Moderate
Sediment Retention & Stabilization	3.87	Moderate	2.53	Moderate
Water Storage	4.83	Moderate	0.56	Lower
Native Plant Habitat	4.63	Moderate	0.57	Lower
Organic Nutrient Export	6.07	Moderate	N.A.	N.A.
Pollinator Habitat	2.14	Lower	3.36	Moderate
Carbon Sequestration	1.85	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.69	Higher
Wetland Stressors	N.A.	N.A.	7.12	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.33	Moderate
Public Use & Recognition	N.A.	N.A.	2.51	Moderate
Wetland Sensitivity	N.A.	N.A.	2.11	Lower



ER33 • **type:** uplift meadow • **acres:** 27.9 • **boundary criteria:** w-u, type, pa • **pin:** 3B4301000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	6.60	Higher	5.98	Higher
Native Plant Habitat	5.72	Higher	6.24	Higher
Phosphorus Retention	4.90	Higher	4.90	Higher
Nitrate Removal	3.35	Higher	6.77	Higher
Songbird, Raptor, & Mammal Habitat	7.60	Higher	6.73	Moderate
Water Storage	5.64	Higher	1.11	Lower
Pollinator Habitat	6.23	Moderate	7.35	Higher
Stream Flow Support	5.60	Moderate	5.95	Higher
Amphibian Habitat	4.93	Moderate	7.51	Higher
Waterbird Nesting Habitat	4.49	Moderate	9.90	Higher
Water Warming	4.33	Moderate	8.12	Higher
Water Cooling	3.54	Moderate	6.66	Higher
Anadromous Fish Habitat	7.30	Moderate	6.67	Moderate
Resident Fish Habitat	6.11	Moderate	5.20	Moderate
Sediment Retention & Stabilization	3.92	Moderate	2.47	Moderate
Organic Nutrient Export	6.35	Moderate	N.A.	N.A.
Carbon Sequestration	4.68	Moderate	N.A.	N.A.
Invertebrate Habitat	0.47	Lower	10.00	Higher
Public Use & Recognition	N.A.	N.A.	8.85	Higher
Wetland Risk	N.A.	N.A.	8.03	Higher
Wetland Ecological Condition	N.A.	N.A.	6.85	Higher
Wetland Stressors	N.A.	N.A.	7.32	Moderate
Wetland Sensitivity	N.A.	N.A.	3.76	Lower



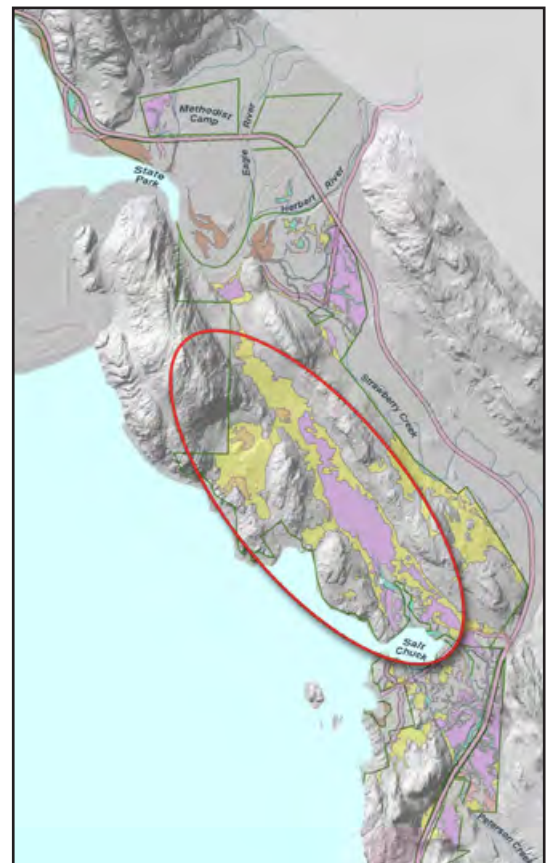
ER34 • **type:** open peatland • **acres:** 2.6 • **boundary criteria:** type, pa • **pin:** 3B4101000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.94	Higher	3.31	Moderate
Water Warming	6.16	Higher	5.20	Moderate
Water Cooling	5.84	Higher	1.58	Lower
Invertebrate Habitat	5.52	Higher	1.88	Lower
Carbon Sequestration	6.22	Higher	N.A.	N.A.
Waterbird Nesting Habitat	4.57	Moderate	9.90	Higher
Pollinator Habitat	6.49	Moderate	3.32	Moderate
Stream Flow Support	4.50	Moderate	2.33	Moderate
Waterbird Feeding Habitat	3.75	Moderate	4.15	Moderate
Phosphorus Retention	2.74	Moderate	2.74	Moderate
Water Storage	3.42	Moderate	1.11	Lower
Organic Nutrient Export	7.53	Moderate	N.A.	N.A.
Amphibian Habitat	2.54	Lower	6.68	Higher
Native Plant Habitat	2.64	Lower	3.52	Moderate
Nitrate Removal	1.76	Lower	5.35	Moderate
Sediment Retention & Stabilization	1.11	Lower	3.81	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.87	Higher
Wetland Stressors	N.A.	N.A.	6.92	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.22	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower

ER35 • **type:** fen/marsh
 • **acres:** 2.5 • **boundary**
criteria: w-u, type, pa • **pin:**
 3B4101000013 • known or prob-
 able anadromous fish



Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.59	Higher	6.54	Higher
Waterbird Feeding Habitat	8.22	Higher	6.98	Higher
Waterbird Nesting Habitat	7.92	Higher	9.90	Higher
Stream Flow Support	6.30	Higher	8.58	Higher
Nitrate Removal	4.37	Higher	9.85	Higher
Phosphorus Retention	3.96	Higher	3.96	Higher
Amphibian Habitat	9.43	Higher	6.08	Moderate
Anadromous Fish Habitat	9.40	Higher	6.67	Moderate
Invertebrate Habitat	5.68	Higher	5.78	Moderate
Sediment Retention & Stabilization	4.45	Higher	2.53	Moderate
Water Storage	5.32	Higher	0.56	Lower
Water Cooling	5.27	Moderate	7.57	Higher
Water Warming	3.82	Moderate	7.20	Higher
Songbird, Raptor, & Mammal Habitat	4.57	Moderate	3.73	Moderate
Native Plant Habitat	3.54	Moderate	0.52	Lower
Organic Nutrient Export	6.60	Moderate	N.A.	N.A.
Pollinator Habitat	2.83	Lower	3.32	Moderate
Carbon Sequestration	3.00	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.99	Moderate
Wetland Risk	N.A.	N.A.	6.40	Moderate
Public Use & Recognition	N.A.	N.A.	4.27	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.99	Moderate
Wetland Sensitivity	N.A.	N.A.	1.04	Lower





ER36 • **type:** forested peatland • **acres:** 4.3 • **boundary criteria:** w-u, pa • **pin:** 3B4001000060 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	7.50	Higher	6.15	Higher
Native Plant Habitat	5.29	Higher	6.14	Higher
Nitrate Removal	4.73	Higher	6.06	Higher
Phosphorus Retention	4.71	Higher	4.71	Higher
Sediment Retention & Stabilization	4.16	Higher	2.79	Moderate
Water Storage	6.32	Higher	1.11	Lower
Songbird, Raptor, & Mammal Habitat	4.39	Moderate	7.33	Higher
Amphibian Habitat	3.45	Moderate	6.67	Higher
Water Cooling	4.85	Moderate	2.23	Moderate
Anadromous Fish Habitat	4.75	Moderate	6.67	Moderate
Water Warming	4.71	Moderate	5.55	Moderate
Waterbird Nesting Habitat	4.35	Moderate	0.00	Lower
Organic Nutrient Export	6.23	Moderate	N.A.	N.A.
Carbon Sequestration	4.56	Moderate	N.A.	N.A.
Invertebrate Habitat	2.00	Lower	10.00	Higher
Stream Flow Support	1.76	Lower	5.83	Higher
Pollinator Habitat	0.38	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	7.23	Higher
Wetland Stressors	N.A.	N.A.	7.20	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.35	Moderate
Public Use & Recognition	N.A.	N.A.	4.08	Moderate
Wetland Sensitivity	N.A.	N.A.	0.00	Lower

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ER37 • **type:** uplift meadow • **acres:** 73.5 • **boundary criteria:** w-u, type • **pin:** 3B4201000010 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	8.15	Higher	9.58	Higher
Waterbird Nesting Habitat	7.73	Higher	9.90	Higher
Waterbird Feeding Habitat	7.60	Higher	6.98	Higher
Phosphorus Retention	6.09	Higher	6.09	Higher
Nitrate Removal	3.63	Higher	6.31	Higher
Pollinator Habitat	10.00	Higher	3.32	Moderate
Songbird, Raptor, & Mammal Habitat	9.27	Higher	3.73	Moderate
Anadromous Fish Habitat	8.67	Higher	6.67	Moderate
Native Plant Habitat	6.06	Higher	4.34	Moderate
Invertebrate Habitat	5.52	Higher	5.95	Moderate
Sediment Retention & Stabilization	4.21	Higher	2.87	Moderate
Water Storage	5.28	Higher	1.11	Lower
Resident Fish Habitat	7.12	Moderate	5.99	Higher
Water Cooling	4.41	Moderate	7.26	Higher
Water Warming	2.52	Moderate	7.78	Higher
Organic Nutrient Export	6.99	Moderate	N.A.	N.A.
Stream Flow Support	3.03	Lower	7.79	Higher
Carbon Sequestration	3.13	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	5.50	Moderate
Wetland Risk	N.A.	N.A.	5.30	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.06	Moderate
Public Use & Recognition	N.A.	N.A.	3.24	Moderate
Wetland Sensitivity	N.A.	N.A.	3.82	Lower



ER38 • **type:** for. peatland
 • **acres:** 1.0 • **boundary**
criteria: w-u, type, pa • **pin:**
 3B4001000080 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.60	Higher	3.33	Moderate
Water Cooling	6.58	Higher	0.63	Lower
Organic Nutrient Export	8.00	Higher	N.A.	N.A.
Pollinator Habitat	5.74	Moderate	3.26	Moderate
Native Plant Habitat	4.23	Moderate	0.59	Lower
Amphibian Habitat	3.89	Moderate	3.00	Lower
Invertebrate Habitat	3.70	Moderate	0.68	Lower
Water Warming	2.94	Moderate	1.30	Lower
Carbon Sequestration	6.01	Moderate	N.A.	N.A.
Stream Flow Support	1.45	Lower	1.97	Moderate
Water Storage	2.15	Lower	1.11	Lower
Phosphorus Retention	1.96	Lower	1.96	Lower
Nitrate Removal	1.70	Lower	3.03	Lower
Sediment Retention & Stabilization	0.98	Lower	0.07	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	7.04	Higher
Wetland Stressors	N.A.	N.A.	7.59	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Public Use & Recognition	N.A.	N.A.	4.11	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.00	Moderate

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ER39 • **type:** forested peatland • **acres:** 92.1 • **boundary criteria:** w-u, type, pa, subsh • **pin:** 3B4201000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	5.43	Higher	5.43	Higher
Nitrate Removal	3.27	Higher	6.57	Higher
Pollinator Habitat	9.26	Higher	3.36	Moderate
Amphibian Habitat	7.37	Higher	4.59	Moderate
Songbird, Raptor, & Mammal Habitat	9.51	Higher	1.67	Lower
Invertebrate Habitat	5.87	Higher	2.14	Lower
Organic Nutrient Export	8.78	Higher	N.A.	N.A.
Carbon Sequestration	6.55	Higher	N.A.	N.A.
Water Warming	2.52	Moderate	8.06	Higher
Stream Flow Support	5.34	Moderate	2.40	Moderate
Native Plant Habitat	4.53	Moderate	4.26	Moderate
Water Cooling	4.41	Moderate	3.95	Moderate
Sediment Retention & Stabilization	3.28	Moderate	3.86	Moderate
Waterbird Nesting Habitat	5.55	Moderate	0.00	Lower
Water Storage	4.61	Moderate	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	4.02	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	3.42	Lower
Wetland Risk	N.A.	N.A.	2.64	Lower
Public Use & Recognition	N.A.	N.A.	2.38	Lower



ER40 • **type:** forested peatland • **acres:** 40.0 • **boundary criteria:** w-u, type, pa, subsh • **pin:** 3B4101000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.33	Higher	3.36	Moderate
Amphibian Habitat	7.47	Higher	4.41	Moderate
Songbird, Raptor, & Mammal Habitat	9.30	Higher	1.67	Lower
Invertebrate Habitat	7.34	Higher	2.08	Lower
Organic Nutrient Export	9.23	Higher	N.A.	N.A.
Carbon Sequestration	6.13	Higher	N.A.	N.A.
Water Warming	3.36	Moderate	8.45	Higher
Native Plant Habitat	4.67	Moderate	1.98	Moderate
Stream Flow Support	4.59	Moderate	2.70	Moderate
Water Cooling	3.93	Moderate	3.51	Moderate
Phosphorus Retention	3.69	Moderate	3.69	Moderate
Nitrate Removal	3.05	Moderate	5.35	Moderate
Sediment Retention & Stabilization	2.32	Moderate	3.86	Moderate
Waterbird Nesting Habitat	5.28	Moderate	0.00	Lower
Water Storage	4.20	Moderate	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	4.20	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	3.17	Lower
Wetland Risk	N.A.	N.A.	2.44	Lower
Public Use & Recognition	N.A.	N.A.	2.36	Lower



ER41 • **type:** open peatland • **acres:** 3.6 • **boundary criteria:** type • **pin:** 3B4101000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Nesting Habitat	7.63	Higher	9.90	Higher
Songbird, Raptor, & Mammal Habitat	9.18	Higher	3.73	Moderate
Pollinator Habitat	7.07	Higher	3.32	Moderate
Invertebrate Habitat	5.90	Higher	2.57	Lower
Carbon Sequestration	6.89	Higher	N.A.	N.A.
Waterbird Feeding Habitat	5.59	Moderate	4.48	Moderate
Phosphorus Retention	3.54	Moderate	3.54	Moderate
Water Warming	3.36	Moderate	5.20	Moderate
Nitrate Removal	2.02	Moderate	5.35	Moderate
Water Storage	4.94	Moderate	1.11	Lower
Water Cooling	3.93	Moderate	1.58	Lower
Organic Nutrient Export	7.27	Moderate	N.A.	N.A.
Amphibian Habitat	2.47	Lower	8.13	Higher
Stream Flow Support	3.15	Lower	2.41	Moderate
Sediment Retention & Stabilization	2.18	Lower	3.86	Moderate
Native Plant Habitat	2.95	Lower	1.58	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	5.08	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	3.17	Lower
Wetland Risk	N.A.	N.A.	2.83	Lower
Public Use & Recognition	N.A.	N.A.	2.01	Lower



ER42 • **type:** open peatland • **acres:** 1.8 • **boundary criteria:** type • **pin:** 3B4101000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	5.87	Higher	6.71	Higher
Songbird, Raptor, & Mammal Habitat	8.90	Higher	3.73	Moderate
Invertebrate Habitat	5.30	Higher	2.26	Lower
Carbon Sequestration	6.96	Higher	N.A.	N.A.
Waterbird Nesting Habitat	4.65	Moderate	9.90	Higher
Waterbird Feeding Habitat	3.84	Moderate	6.48	Higher
Pollinator Habitat	6.62	Moderate	3.32	Moderate
Water Warming	3.36	Moderate	4.72	Moderate
Phosphorus Retention	3.17	Moderate	3.17	Moderate
Water Cooling	3.93	Moderate	1.40	Lower
Water Storage	3.86	Moderate	1.11	Lower
Organic Nutrient Export	7.51	Moderate	N.A.	N.A.
Stream Flow Support	2.90	Lower	2.29	Moderate
Native Plant Habitat	2.82	Lower	3.53	Moderate
Nitrate Removal	1.65	Lower	5.10	Moderate
Sediment Retention & Stabilization	1.34	Lower	2.70	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	5.35	Moderate
Wetland Stressors	N.A.	N.A.	3.72	Lower
Wetland Risk	N.A.	N.A.	3.54	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.36	Lower



ER43 • **type:** forested peatland • **acres:** 1.2 • **boundary criteria:** w-u • **pin:** 3B4101000013 • **no** known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.06	Higher	3.32	Moderate
Water Warming	5.25	Higher	2.76	Moderate
Songbird, Raptor, & Mammal Habitat	8.06	Higher	1.67	Lower
Water Cooling	7.51	Higher	1.05	Lower
Native Plant Habitat	5.98	Higher	1.41	Lower
Invertebrate Habitat	5.89	Higher	0.78	Lower
Organic Nutrient Export	8.42	Higher	N.A.	N.A.
Carbon Sequestration	6.17	Higher	N.A.	N.A.
Stream Flow Support	3.26	Moderate	2.41	Moderate
Phosphorus Retention	2.65	Moderate	2.65	Moderate
Nitrate Removal	2.35	Moderate	3.54	Moderate
Amphibian Habitat	4.13	Moderate	3.38	Lower
Water Storage	1.79	Lower	1.11	Lower
Sediment Retention & Stabilization	0.72	Lower	0.24	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Public Use & Recognition	N.A.	N.A.	4.12	Moderate
Wetland Stressors	N.A.	N.A.	3.81	Lower
Wetland Risk	N.A.	N.A.	2.05	Lower
Wetland Ecological Condition	N.A.	N.A.	1.80	Lower



ER44 • **type:** forested peatland • **acres:** 9.9 • **boundary criteria:** w-u, type, pa, subsh • **pin:** 3B4101000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	7.73	Higher	1.55	Moderate
Pollinator Habitat	7.31	Higher	3.36	Moderate
Water Cooling	6.10	Higher	3.51	Moderate
Songbird, Raptor, & Mammal Habitat	7.85	Higher	1.67	Lower
Amphibian Habitat	6.52	Higher	3.21	Lower
Native Plant Habitat	5.84	Higher	1.12	Lower
Organic Nutrient Export	8.34	Higher	N.A.	N.A.
Water Warming	4.24	Moderate	8.32	Higher
Water Storage	3.89	Moderate	10.00	Higher
Phosphorus Retention	3.60	Moderate	3.60	Moderate
Sediment Retention & Stabilization	2.57	Moderate	3.93	Moderate
Nitrate Removal	2.17	Moderate	5.00	Moderate
Carbon Sequestration	5.82	Moderate	N.A.	N.A.
Invertebrate Habitat	1.65	Lower	1.01	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.74	Moderate
Wetland Stressors	N.A.	N.A.	3.11	Lower
Public Use & Recognition	N.A.	N.A.	2.31	Lower
Wetland Risk	N.A.	N.A.	2.18	Lower

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ER45 • **type:** for. peatland
 • **acres:** 5.0 • **boundary**
criteria: w-u, pa, subsh • **pin:**
 3B4101000013 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.33	Higher	3.36	Moderate
Songbird, Raptor, & Mammal Habitat	7.96	Higher	1.67	Lower
Water Cooling	6.26	Higher	1.05	Lower
Carbon Sequestration	6.09	Higher	N.A.	N.A.
Stream Flow Support	3.39	Moderate	1.52	Moderate
Phosphorus Retention	3.19	Moderate	3.19	Moderate
Native Plant Habitat	5.06	Moderate	1.17	Lower
Water Warming	4.12	Moderate	2.13	Lower
Amphibian Habitat	3.65	Moderate	3.30	Lower
Waterbird Nesting Habitat	3.27	Moderate	0.00	Lower
Water Storage	3.25	Moderate	1.11	Lower
Nitrate Removal	2.06	Moderate	2.07	Lower
Organic Nutrient Export	7.44	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.62	Lower	0.12	Lower
Invertebrate Habitat	1.50	Lower	1.16	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	6.18	Higher
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	4.37	Lower
Wetland Risk	N.A.	N.A.	2.94	Lower
Wetland Ecological Condition	N.A.	N.A.	2.44	Lower



ER46 • **type:** forested peat-
land • **acres:** 1.1 • **bound-
ary criteria:** w-u, subsh • **pin:**
3B4101000010 • no known or
probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.40	Higher	1.67	Lower
Invertebrate Habitat	5.53	Higher	0.64	Lower
Carbon Sequestration	6.55	Higher	N.A.	N.A.
Pollinator Habitat	6.37	Moderate	3.36	Moderate
Nitrate Removal	2.26	Moderate	3.79	Moderate
Water Cooling	4.60	Moderate	1.05	Lower
Amphibian Habitat	3.78	Moderate	2.84	Lower
Native Plant Habitat	3.63	Moderate	0.69	Lower
Organic Nutrient Export	6.96	Moderate	N.A.	N.A.
Stream Flow Support	1.82	Lower	2.33	Moderate
Sediment Retention & Stabilization	1.89	Lower	0.37	Lower
Phosphorus Retention	1.30	Lower	1.30	Lower
Water Storage	0.32	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.45	Higher
Wetland Stressors	N.A.	N.A.	7.50	Moderate
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.90	Lower
Public Use & Recognition	N.A.	N.A.	2.37	Lower

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ER47 • **type:** uplift meadow • **acres:** 1.6 • **boundary criteria:** w-u, type • **pin:** 3B4301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	7.99	Higher	6.08	Moderate
Songbird, Raptor, & Mammal Habitat	7.49	Higher	3.73	Moderate
Water Storage	5.42	Higher	1.67	Lower
Carbon Sequestration	6.09	Higher	N.A.	N.A.
Waterbird Nesting Habitat	4.41	Moderate	9.90	Higher
Waterbird Feeding Habitat	4.64	Moderate	3.98	Moderate
Native Plant Habitat	3.78	Moderate	2.40	Moderate
Water Cooling	4.02	Moderate	0.00	Lower
Water Warming	3.70	Moderate	0.00	Lower
Sediment Retention & Stabilization	3.64	Moderate	0.35	Lower
Nitrate Removal	1.98	Moderate	1.21	Lower
Pollinator Habitat	3.13	Lower	3.32	Moderate
Invertebrate Habitat	2.44	Lower	2.34	Lower
Phosphorus Retention	2.10	Lower	2.10	Lower
Stream Flow Support	0.43	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.40	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	7.45	Higher
Wetland Ecological Condition	N.A.	N.A.	6.50	Higher
Wetland Stressors	N.A.	N.A.	6.93	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.77	Lower



ER48 • **type:** forested peatland • **acres:** 54.7 • **boundary criteria:** w-u, type, pa, subsh • **pin:** 3B4101000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.90	Higher	3.36	Moderate
Songbird, Raptor, & Mammal Habitat	9.76	Higher	1.67	Lower
Organic Nutrient Export	8.17	Higher	N.A.	N.A.
Amphibian Habitat	3.51	Moderate	4.80	Moderate
Water Warming	3.05	Moderate	5.29	Moderate
Phosphorus Retention	2.89	Moderate	2.89	Moderate
Nitrate Removal	2.20	Moderate	5.35	Moderate
Invertebrate Habitat	3.51	Moderate	0.99	Lower
Water Storage	3.01	Moderate	1.11	Lower
Water Cooling	2.76	Moderate	1.58	Lower
Carbon Sequestration	5.73	Moderate	N.A.	N.A.
Stream Flow Support	2.55	Lower	1.93	Moderate
Native Plant Habitat	2.53	Lower	2.32	Moderate
Sediment Retention & Stabilization	1.43	Lower	3.81	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.61	Moderate
Wetland Risk	N.A.	N.A.	5.65	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Ecological Condition	N.A.	N.A.	3.20	Lower
Public Use & Recognition	N.A.	N.A.	2.10	Lower



ER49 • **type:** open peatland • **acres:** 3.2 • **boundary criteria:** type • **pin:** 3B4101000013 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.94	Higher	3.75	Moderate
Invertebrate Habitat	6.22	Higher	1.26	Lower
Organic Nutrient Export	7.98	Higher	N.A.	N.A.
Carbon Sequestration	7.18	Higher	N.A.	N.A.
Pollinator Habitat	6.04	Moderate	3.36	Moderate
Native Plant Habitat	3.60	Moderate	3.43	Moderate
Phosphorus Retention	2.71	Moderate	2.71	Moderate
Water Warming	2.52	Moderate	5.45	Moderate
Water Cooling	4.41	Moderate	1.40	Lower
Waterbird Feeding Habitat	4.01	Moderate	0.00	Lower
Water Storage	3.33	Moderate	1.11	Lower
Amphibian Habitat	2.37	Lower	6.85	Higher
Stream Flow Support	3.03	Lower	2.47	Moderate
Sediment Retention & Stabilization	1.48	Lower	3.81	Moderate
Nitrate Removal	1.40	Lower	5.35	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	2.50	Moderate
Wetland Stressors	N.A.	N.A.	3.87	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Ecological Condition	N.A.	N.A.	2.44	Lower
Wetland Risk	N.A.	N.A.	2.40	Lower



ER50 • **type:** uplift meadow • **acres:** 7.9 • **boundary criteria:** w-u, pa • **pin:** 3B4401000020 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.50	Higher	6.04	Higher
Waterbird Nesting Habitat	8.11	Higher	10.00	Higher
Amphibian Habitat	7.97	Higher	9.74	Higher
Phosphorus Retention	6.99	Higher	6.99	Higher
Water Cooling	5.56	Higher	7.63	Higher
Nitrate Removal	3.63	Higher	8.46	Higher
Pollinator Habitat	9.87	Higher	3.36	Moderate
Anadromous Fish Habitat	9.54	Higher	6.67	Moderate
Songbird, Raptor, & Mammal Habitat	9.40	Higher	4.17	Moderate
Invertebrate Habitat	8.07	Higher	6.36	Moderate
Waterbird Feeding Habitat	7.67	Higher	4.33	Moderate
Native Plant Habitat	6.71	Higher	4.36	Moderate
Water Storage	5.28	Higher	1.11	Lower
Water Warming	2.52	Moderate	7.76	Higher
Sediment Retention & Stabilization	3.45	Moderate	3.98	Moderate
Organic Nutrient Export	6.45	Moderate	N.A.	N.A.
Carbon Sequestration	4.00	Moderate	N.A.	N.A.
Stream Flow Support	3.03	Lower	9.08	Higher
Wetland Ecological Condition	N.A.	N.A.	7.34	Higher
Wetland Risk	N.A.	N.A.	6.98	Higher
Wetland Stressors	N.A.	N.A.	6.13	Moderate
Wetland Sensitivity	N.A.	N.A.	5.43	Moderate
Public Use & Recognition	N.A.	N.A.	2.06	Lower



ER51 • **type:** fen/marsh • **acres:** 1.8 • **boundary criteria:** w-u, type, subsh • **pin:** 3B4301000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Nesting Habitat	7.22	Higher	10.00	Higher
Water Storage	5.42	Higher	10.00	Higher
Phosphorus Retention	4.03	Higher	4.03	Higher
Amphibian Habitat	8.96	Higher	5.76	Moderate
Waterbird Feeding Habitat	7.06	Higher	4.00	Moderate
Sediment Retention & Stabilization	5.22	Higher	0.33	Lower
Nitrate Removal	4.36	Higher	0.96	Lower
Pollinator Habitat	5.41	Moderate	3.36	Moderate
Songbird, Raptor, & Mammal Habitat	5.13	Moderate	3.75	Moderate
Water Warming	4.62	Moderate	0.00	Lower
Water Cooling	4.47	Moderate	0.00	Lower
Invertebrate Habitat	4.41	Moderate	2.78	Lower
Native Plant Habitat	3.29	Moderate	0.57	Lower
Carbon Sequestration	4.53	Moderate	N.A.	N.A.
Stream Flow Support	0.14	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.21	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	8.43	Higher
Public Use & Recognition	N.A.	N.A.	7.91	Higher
Wetland Risk	N.A.	N.A.	7.62	Higher
Wetland Stressors	N.A.	N.A.	6.27	Moderate
Wetland Sensitivity	N.A.	N.A.	3.76	Lower



ER55 • **type:** fen/marsh
 • **acres:** 1.0 • **boundary**
criteria: w-u, type, pa • **pin:**
 3B4101000012 • known or
 probable anadromous fish

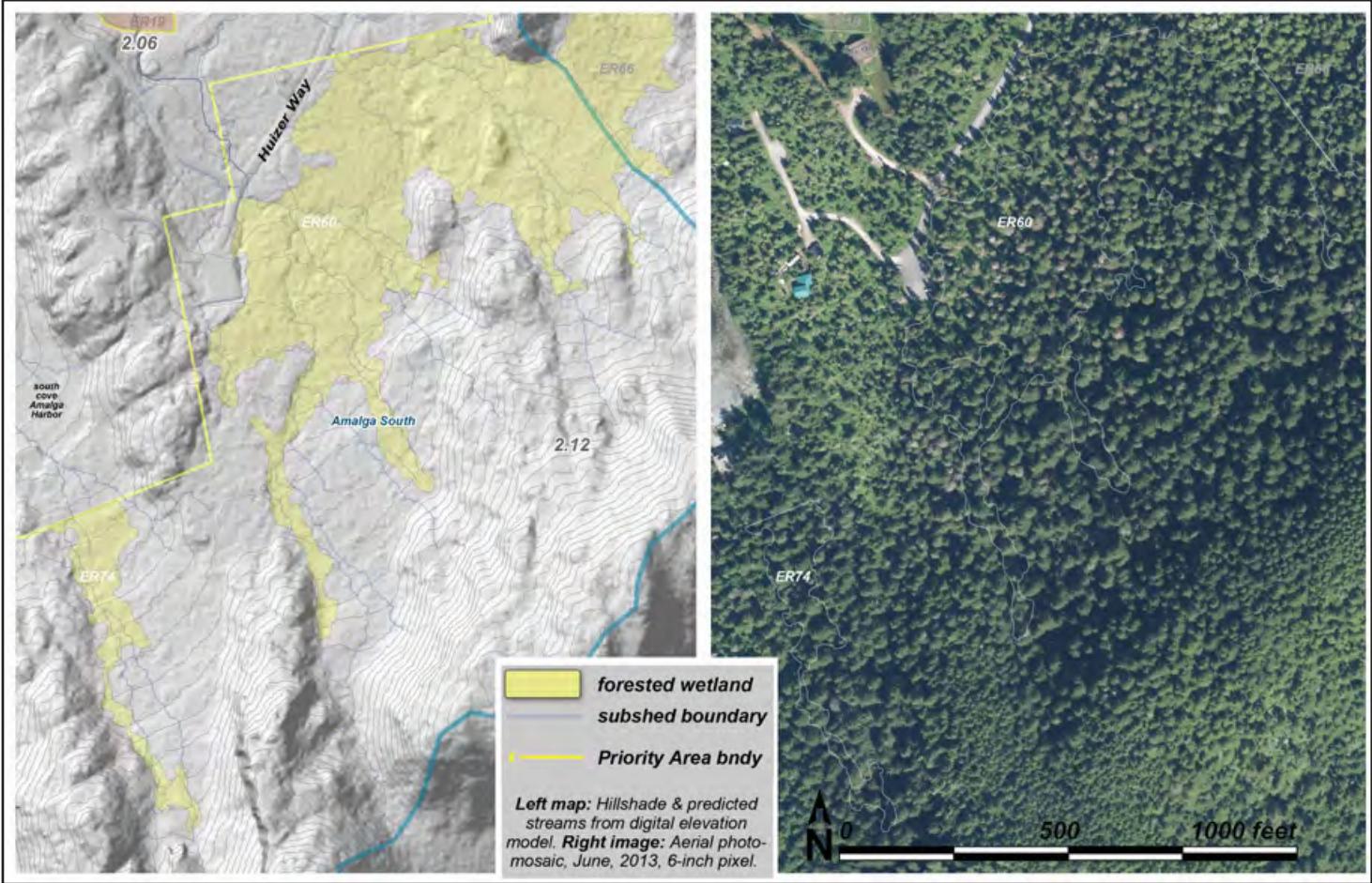
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	9.67	Higher	6.98	Higher
Amphibian Habitat	9.48	Higher	8.67	Higher
Resident Fish Habitat	8.69	Higher	8.46	Higher
Waterbird Nesting Habitat	7.81	Higher	9.90	Higher
Invertebrate Habitat	5.98	Higher	10.00	Higher
Native Plant Habitat	5.76	Higher	9.10	Higher
Water Cooling	5.49	Higher	7.82	Higher
Nitrate Removal	3.61	Higher	6.82	Higher
Anadromous Fish Habitat	9.97	Higher	7.33	Moderate
Water Storage	5.19	Higher	0.00	Lower
Organic Nutrient Export	7.75	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	6.48	Moderate	8.23	Higher
Stream Flow Support	5.80	Moderate	8.87	Higher
Water Warming	3.28	Moderate	7.95	Higher
Sediment Retention & Stabilization	4.01	Moderate	2.38	Moderate
Phosphorus Retention	3.45	Moderate	3.45	Moderate
Pollinator Habitat	2.81	Lower	9.36	Higher
Carbon Sequestration	2.86	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	7.11	Higher
Wetland Stressors	N.A.	N.A.	7.13	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.26	Moderate
Public Use & Recognition	N.A.	N.A.	3.88	Moderate
Wetland Sensitivity	N.A.	N.A.	3.01	Lower

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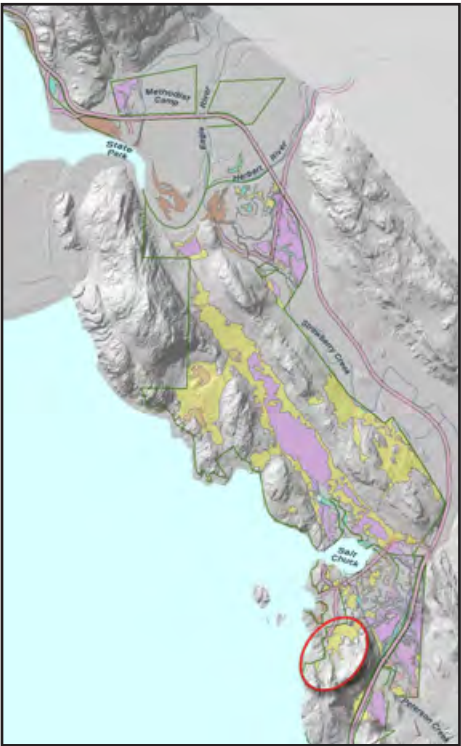


ER60 • **type:** forested peatland • **acres:** 9.6 • **boundary criteria:** w-u, pa, subsh • **pin:** 3B4001000070 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.66	Higher	4.66	Higher
Nitrate Removal	3.23	Higher	6.57	Higher
Songbird, Raptor, & Mammal Habitat	9.03	Higher	3.33	Moderate
Pollinator Habitat	7.35	Higher	3.26	Moderate
Water Warming	7.00	Higher	5.57	Moderate
Native Plant Habitat	5.60	Higher	3.73	Moderate
Water Cooling	6.51	Higher	1.40	Lower
Invertebrate Habitat	5.89	Higher	1.38	Lower
Organic Nutrient Export	8.21	Higher	N.A.	N.A.
Amphibian Habitat	3.67	Moderate	4.19	Moderate
Stream Flow Support	3.51	Moderate	2.41	Moderate
Water Storage	3.64	Moderate	1.11	Lower
Waterbird Nesting Habitat	3.57	Moderate	0.00	Lower
Carbon Sequestration	5.24	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.08	Lower	3.81	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.95	Moderate
Wetland Risk	N.A.	N.A.	4.96	Moderate
Public Use & Recognition	N.A.	N.A.	2.92	Moderate
Wetland Ecological Condition	N.A.	N.A.	0.83	Lower



Unit maps for ER60 74





ER61 • **type:** for. peatland • **acres:** 2.0 • **boundary criteria:** w-u, pa • **pin:** 3B4001010010, 20, 30, 40 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.38	Higher	4.38	Higher
Nitrate Removal	4.21	Higher	3.54	Moderate
Sediment Retention & Stabilization	9.25	Higher	0.40	Lower
Water Storage	9.22	Higher	1.11	Lower
Carbon Sequestration	8.76	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.84	Moderate	3.33	Moderate
Amphibian Habitat	3.11	Moderate	1.67	Lower
Pollinator Habitat	4.10	Lower	3.26	Moderate
Native Plant Habitat	2.69	Lower	2.11	Moderate
Stream Flow Support	1.68	Lower	1.84	Moderate
Invertebrate Habitat	3.06	Lower	0.31	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Cooling	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.56	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.09	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Risk	N.A.	N.A.	4.92	Moderate
Public Use & Recognition	N.A.	N.A.	3.90	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.81	Lower



ER62 • **type:** for. peatland •
acres: 0.7 • **boundary criteria:**
 w-u, pa • **pin:** 3B4001010040 •
 no known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Nitrate Removal	3.95	Higher	3.64	Moderate
Water Storage	9.22	Higher	1.67	Lower
Sediment Retention & Stabilization	8.12	Higher	0.50	Lower
Carbon Sequestration	8.60	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	4.28	Moderate	3.33	Moderate
Phosphorus Retention	3.44	Moderate	3.44	Moderate
Amphibian Habitat	3.32	Moderate	1.67	Lower
Pollinator Habitat	3.29	Lower	3.26	Moderate
Native Plant Habitat	2.20	Lower	0.43	Lower
Invertebrate Habitat	2.06	Lower	0.08	Lower
Stream Flow Support	0.67	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Cooling	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.08	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	5.99	Moderate
Wetland Risk	N.A.	N.A.	4.24	Moderate
Public Use & Recognition	N.A.	N.A.	4.08	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.51	Lower

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ER65 • **type:** forested peatland • **acres:** 3.8 • **boundary criteria:** w-u, type, pa • **pin:** 3B4001000060 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	6.77	Higher	1.67	Lower
Water Storage	6.40	Higher	1.67	Lower
Carbon Sequestration	7.52	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.41	Moderate	3.33	Moderate
Phosphorus Retention	3.27	Moderate	3.27	Moderate
Nitrate Removal	2.84	Moderate	3.23	Moderate
Sediment Retention & Stabilization	3.03	Moderate	0.25	Lower
Organic Nutrient Export	6.08	Moderate	N.A.	N.A.
Pollinator Habitat	3.29	Lower	3.26	Moderate
Native Plant Habitat	2.32	Lower	1.81	Lower
Invertebrate Habitat	2.06	Lower	0.65	Lower
Stream Flow Support	0.84	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Cooling	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	7.42	Higher
Wetland Risk	N.A.	N.A.	6.48	Higher
Wetland Stressors	N.A.	N.A.	6.98	Moderate
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.19	Moderate



ER66 • **type:** forested peatland • **acres:** 2.5 • **boundary criteria:** w-u, subsh • **pin:** 3B4001000060
 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Storage	5.87	Higher	10.00	Higher
Phosphorus Retention	4.33	Higher	4.33	Higher
Songbird, Raptor, & Mammal Habitat	7.63	Higher	3.33	Moderate
Nitrate Removal	3.35	Higher	3.28	Moderate
Water Cooling	6.83	Higher	0.00	Lower
Sediment Retention & Stabilization	4.20	Higher	0.35	Lower
Carbon Sequestration	6.50	Higher	N.A.	N.A.
Resident Fish Habitat	6.65	Moderate	6.54	Higher
Pollinator Habitat	5.55	Moderate	3.26	Moderate
Waterbird Nesting Habitat	5.01	Moderate	0.00	Lower
Native Plant Habitat	4.83	Moderate	0.55	Lower
Amphibian Habitat	3.19	Moderate	3.03	Lower
Water Warming	2.44	Moderate	0.00	Lower
Anadromous Fish Habitat	1.55	Lower	6.67	Moderate
Invertebrate Habitat	1.63	Lower	2.56	Lower
Stream Flow Support	0.76	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.56	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.87	Moderate
Wetland Risk	N.A.	N.A.	6.00	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.39	Moderate
Public Use & Recognition	N.A.	N.A.	2.74	Moderate



ER67 • **type:** uplift meadow • **acres:** 1.0 • **boundary criteria:** w-u, type • **pin:** 3B4001000060 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	6.36	Higher	6.67	Higher
Pollinator Habitat	7.17	Higher	3.36	Moderate
Resident Fish Habitat	6.82	Moderate	6.54	Higher
Songbird, Raptor, & Mammal Habitat	5.76	Moderate	5.00	Moderate
Water Cooling	4.60	Moderate	2.63	Moderate
Amphibian Habitat	4.22	Moderate	5.81	Moderate
Native Plant Habitat	3.46	Moderate	2.71	Moderate
Phosphorus Retention	2.88	Moderate	2.88	Moderate
Nitrate Removal	1.91	Moderate	3.28	Moderate
Carbon Sequestration	5.49	Moderate	N.A.	N.A.
Stream Flow Support	2.02	Lower	4.08	Moderate
Water Storage	1.76	Lower	5.00	Moderate
Invertebrate Habitat	2.77	Lower	2.30	Lower
Sediment Retention & Stabilization	1.68	Lower	0.36	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.74	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.99	Higher
Wetland Stressors	N.A.	N.A.	7.01	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.26	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Public Use & Recognition	N.A.	N.A.	3.67	Moderate



ER68 • **type:** fen/marsh • **acres:** 3.3 • **boundary criteria:** w-u, type, pa • **pin:** 3B4001000060 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	7.39	Higher	7.12	Higher
Waterbird Feeding Habitat	7.34	Higher	6.67	Higher
Waterbird Nesting Habitat	6.35	Higher	10.00	Higher
Amphibian Habitat	5.57	Higher	7.86	Higher
Phosphorus Retention	5.00	Higher	5.00	Higher
Songbird, Raptor, & Mammal Habitat	7.42	Higher	5.00	Moderate
Invertebrate Habitat	5.36	Higher	4.55	Moderate
Nitrate Removal	4.56	Higher	3.54	Moderate
Water Cooling	6.83	Higher	0.00	Lower
Native Plant Habitat	6.21	Higher	0.57	Lower
Water Storage	6.05	Higher	1.67	Lower
Sediment Retention & Stabilization	4.53	Higher	0.43	Lower
Carbon Sequestration	6.29	Higher	N.A.	N.A.
Pollinator Habitat	5.55	Moderate	3.36	Moderate
Anadromous Fish Habitat	4.69	Moderate	6.67	Moderate
Water Warming	2.44	Moderate	0.00	Lower
Organic Nutrient Export	6.30	Moderate	N.A.	N.A.
Stream Flow Support	1.18	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.35	Moderate
Wetland Risk	N.A.	N.A.	6.37	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.08	Lower
Public Use & Recognition	N.A.	N.A.	2.25	Lower



ER69 • **type:** uplift meadow • **acres:** 11.4 • **boundary criteria:** w-u, type • **pin:** 3B4001000060 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Storage	8.51	Higher	10.00	Higher
Phosphorus Retention	4.01	Higher	4.01	Higher
Nitrate Removal	4.24	Higher	3.54	Moderate
Sediment Retention & Stabilization	7.74	Higher	0.40	Lower
Songbird, Raptor, & Mammal Habitat	4.29	Moderate	5.00	Moderate
Amphibian Habitat	3.84	Moderate	1.67	Lower
Carbon Sequestration	5.45	Moderate	N.A.	N.A.
Invertebrate Habitat	1.69	Lower	0.14	Lower
Pollinator Habitat	1.04	Lower	0.00	Lower
Native Plant Habitat	0.98	Lower	1.01	Lower
Stream Flow Support	0.34	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Cooling	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.86	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	7.51	Higher
Wetland Stressors	N.A.	N.A.	7.63	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.95	Moderate
Public Use & Recognition	N.A.	N.A.	2.83	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower



ER70 • **type:** forested peatland • **acres:** 1.5 • **boundary criteria:** w-u, type • **pin:** 3B4001000060
 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Nitrate Removal	4.16	Higher	6.82	Higher
Phosphorus Retention	4.10	Higher	4.10	Higher
Songbird, Raptor, & Mammal Habitat	7.84	Higher	3.33	Moderate
Pollinator Habitat	7.36	Higher	3.26	Moderate
Water Cooling	5.94	Higher	2.68	Moderate
Sediment Retention & Stabilization	4.23	Higher	4.43	Moderate
Native Plant Habitat	7.44	Higher	1.13	Lower
Water Storage	6.37	Higher	1.11	Lower
Resident Fish Habitat	7.18	Moderate	7.12	Higher
Stream Flow Support	3.51	Moderate	6.43	Higher
Anadromous Fish Habitat	7.37	Moderate	6.67	Moderate
Water Warming	4.62	Moderate	5.51	Moderate
Waterbird Nesting Habitat	3.38	Moderate	0.00	Lower
Amphibian Habitat	2.98	Moderate	3.20	Lower
Organic Nutrient Export	7.31	Moderate	N.A.	N.A.
Carbon Sequestration	5.15	Moderate	N.A.	N.A.
Invertebrate Habitat	0.95	Lower	3.35	Moderate
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.84	Higher
Wetland Stressors	N.A.	N.A.	7.29	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.25	Moderate
Wetland Sensitivity	N.A.	N.A.	4.44	Lower
Public Use & Recognition	N.A.	N.A.	2.25	Lower



ER71 • **type:** floodplain wetland • **acres:** 4.4 • **boundary criteria:** w-u, type, pa • **pin:** 3B4001000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.60	Higher	6.54	Higher
Waterbird Feeding Habitat	8.07	Higher	6.67	Higher
Nitrate Removal	4.84	Higher	6.31	Higher
Anadromous Fish Habitat	10.00	Higher	6.67	Moderate
Invertebrate Habitat	6.22	Higher	4.70	Moderate
Water Cooling	4.85	Moderate	7.83	Higher
Water Warming	4.12	Moderate	7.68	Higher
Waterbird Nesting Habitat	5.61	Moderate	9.70	Moderate
Songbird, Raptor, & Mammal Habitat	4.76	Moderate	4.93	Moderate
Sediment Retention & Stabilization	3.81	Moderate	2.85	Moderate
Phosphorus Retention	3.78	Moderate	3.78	Moderate
Native Plant Habitat	4.85	Moderate	0.43	Lower
Water Storage	3.98	Moderate	0.56	Lower
Organic Nutrient Export	7.32	Moderate	N.A.	N.A.
Stream Flow Support	2.57	Lower	8.90	Higher
Pollinator Habitat	2.31	Lower	3.26	Moderate
Amphibian Habitat	1.55	Lower	6.14	Moderate
Carbon Sequestration	2.65	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.98	Moderate
Wetland Risk	N.A.	N.A.	5.13	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.30	Lower
Wetland Ecological Condition	N.A.	N.A.	1.16	Lower



ER73 • **type:** forested peatland • **acres:** 2.3 • **boundary criteria:** w-u, pa • **pin:** 3B3901000121
 • known or probable anadromous fish

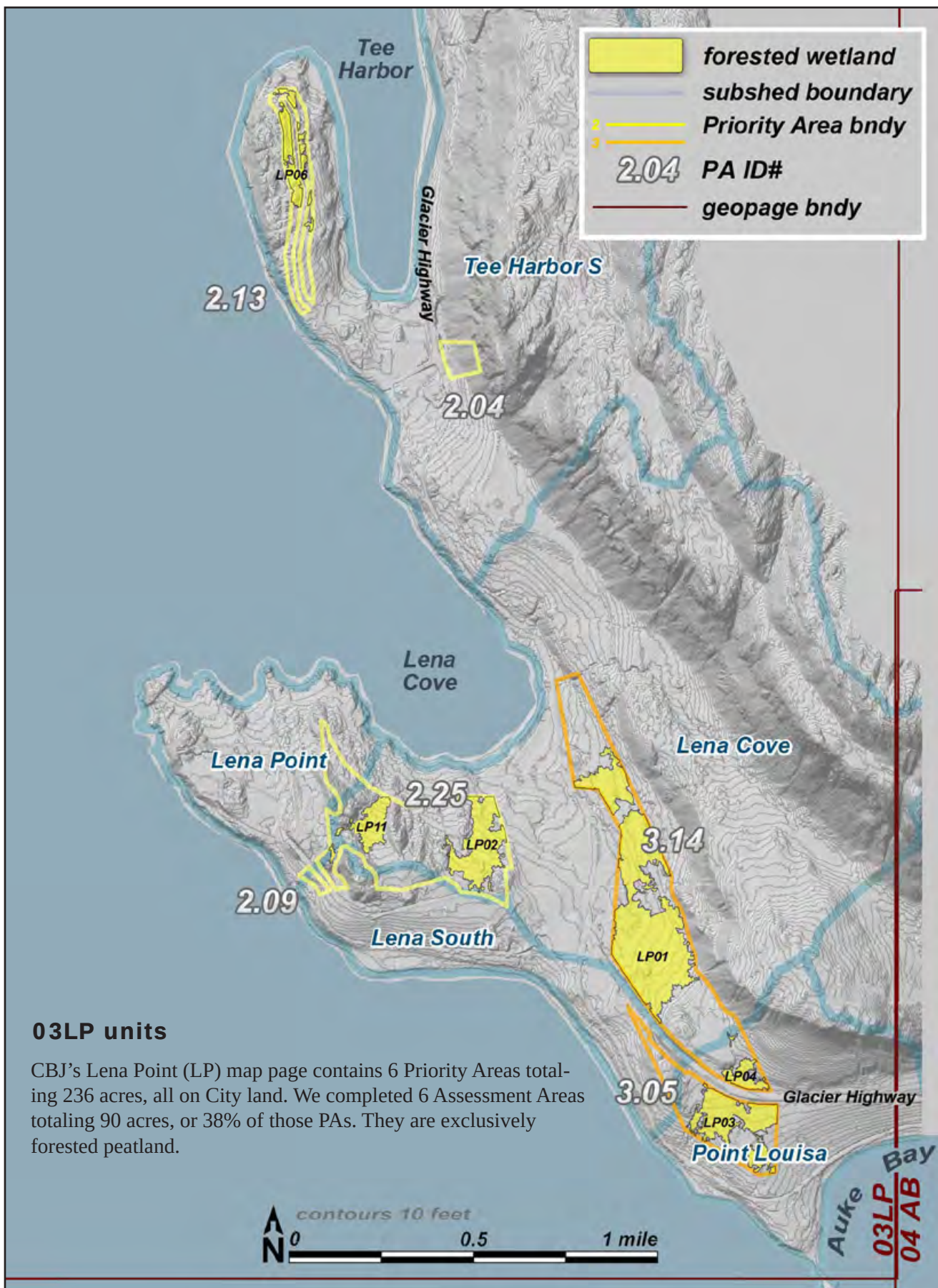
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.42	Higher	4.42	Higher
Nitrate Removal	4.35	Higher	6.77	Higher
Songbird, Raptor, & Mammal Habitat	7.63	Higher	3.33	Moderate
Water Storage	5.94	Higher	1.11	Lower
Carbon Sequestration	6.12	Higher	N.A.	N.A.
Resident Fish Habitat	6.27	Moderate	6.15	Higher
Pollinator Habitat	5.74	Moderate	3.26	Moderate
Anadromous Fish Habitat	4.79	Moderate	6.67	Moderate
Water Warming	4.62	Moderate	4.27	Moderate
Sediment Retention & Stabilization	3.10	Moderate	3.81	Moderate
Water Cooling	5.17	Moderate	1.12	Lower
Native Plant Habitat	3.40	Moderate	0.60	Lower
Amphibian Habitat	2.97	Moderate	3.03	Lower
Waterbird Nesting Habitat	2.78	Moderate	0.00	Lower
Organic Nutrient Export	6.25	Moderate	N.A.	N.A.
Stream Flow Support	2.41	Lower	5.37	Higher
Invertebrate Habitat	1.72	Lower	2.68	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	9.59	Higher
Wetland Risk	N.A.	N.A.	9.30	Higher
Wetland Ecological Condition	N.A.	N.A.	4.32	Moderate
Wetland Sensitivity	N.A.	N.A.	2.15	Lower
Public Use & Recognition	N.A.	N.A.	1.88	Lower

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ER74 • **type:** forested peatland • **acres:** 1.1 • **boundary criteria:** w-u, pa
 • **pin:** 3B4001000070 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.45	Higher	3.33	Moderate
Nitrate Removal	2.17	Moderate	6.82	Higher
Pollinator Habitat	4.93	Moderate	3.26	Moderate
Water Warming	4.62	Moderate	3.16	Moderate
Stream Flow Support	3.51	Moderate	1.74	Moderate
Water Cooling	5.17	Moderate	1.26	Lower
Water Storage	3.52	Moderate	1.11	Lower
Amphibian Habitat	3.28	Moderate	2.88	Lower
Organic Nutrient Export	6.82	Moderate	N.A.	N.A.
Invertebrate Habitat	2.55	Lower	0.59	Lower
Phosphorus Retention	1.77	Lower	1.77	Lower
Native Plant Habitat	1.77	Lower	0.43	Lower
Sediment Retention & Stabilization	1.25	Lower	0.48	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.12	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	7.05	Moderate
Wetland Risk	N.A.	N.A.	5.71	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.29	Lower
Public Use & Recognition	N.A.	N.A.	2.19	Lower

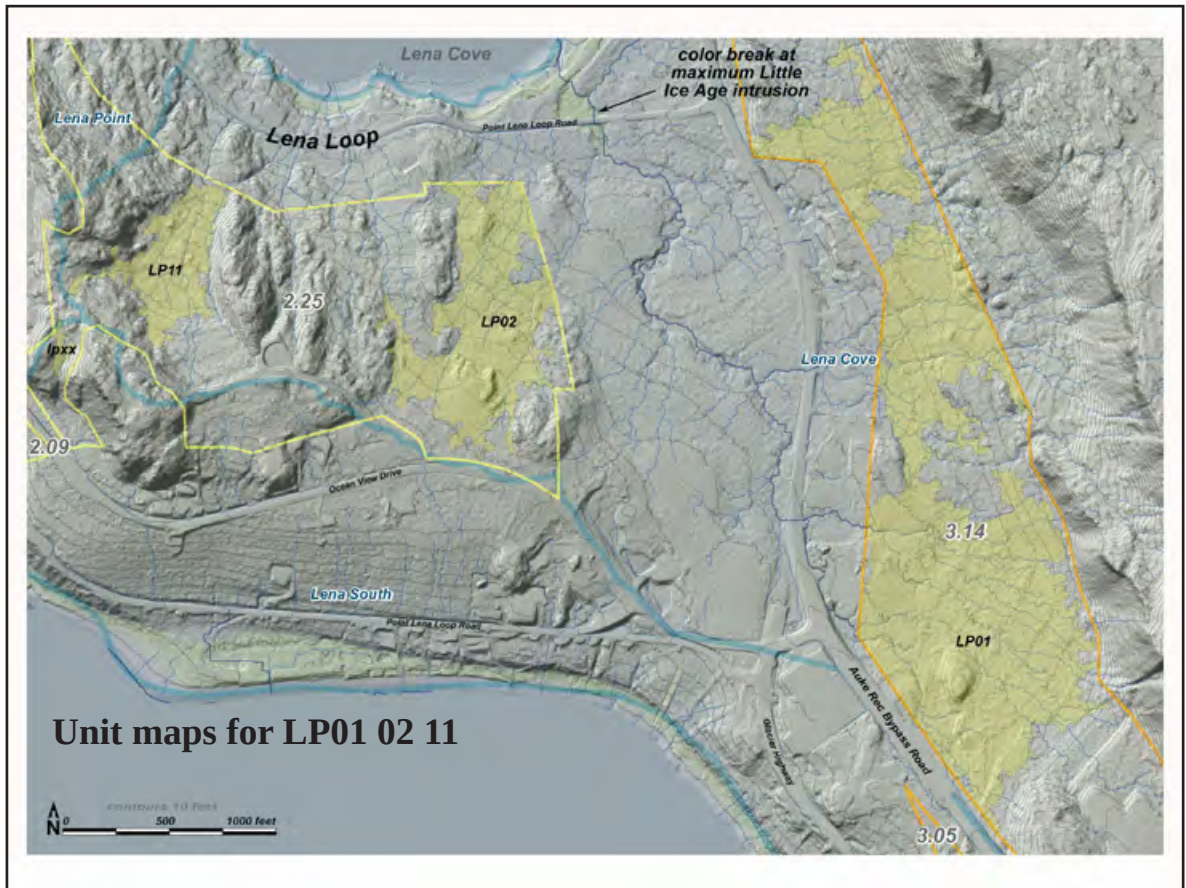


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LP01 • **type:** forested peatland • **acres:** 47.3 • **boundary criteria:** w-u, pa • **pin:** 8B3401000100 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Nitrate Removal	3.27	Higher	3.54	Moderate
Invertebrate Habitat	7.31	Higher	0.57	Lower
Carbon Sequestration	8.22	Higher	N.A.	N.A.
Pollinator Habitat	6.66	Moderate	4.07	Moderate
Native Plant Habitat	4.26	Moderate	2.31	Moderate
Phosphorus Retention	3.85	Moderate	3.85	Moderate
Songbird, Raptor, & Mammal Habitat	6.91	Moderate	2.50	Lower
Water Cooling	4.60	Moderate	1.26	Lower
Amphibian Habitat	3.87	Moderate	2.43	Lower
Sediment Retention & Stabilization	2.55	Moderate	0.28	Lower
Organic Nutrient Export	6.74	Moderate	N.A.	N.A.
Stream Flow Support	2.32	Lower	2.69	Moderate
Water Storage	1.03	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.95	Moderate
Wetland Risk	N.A.	N.A.	5.72	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.56	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower





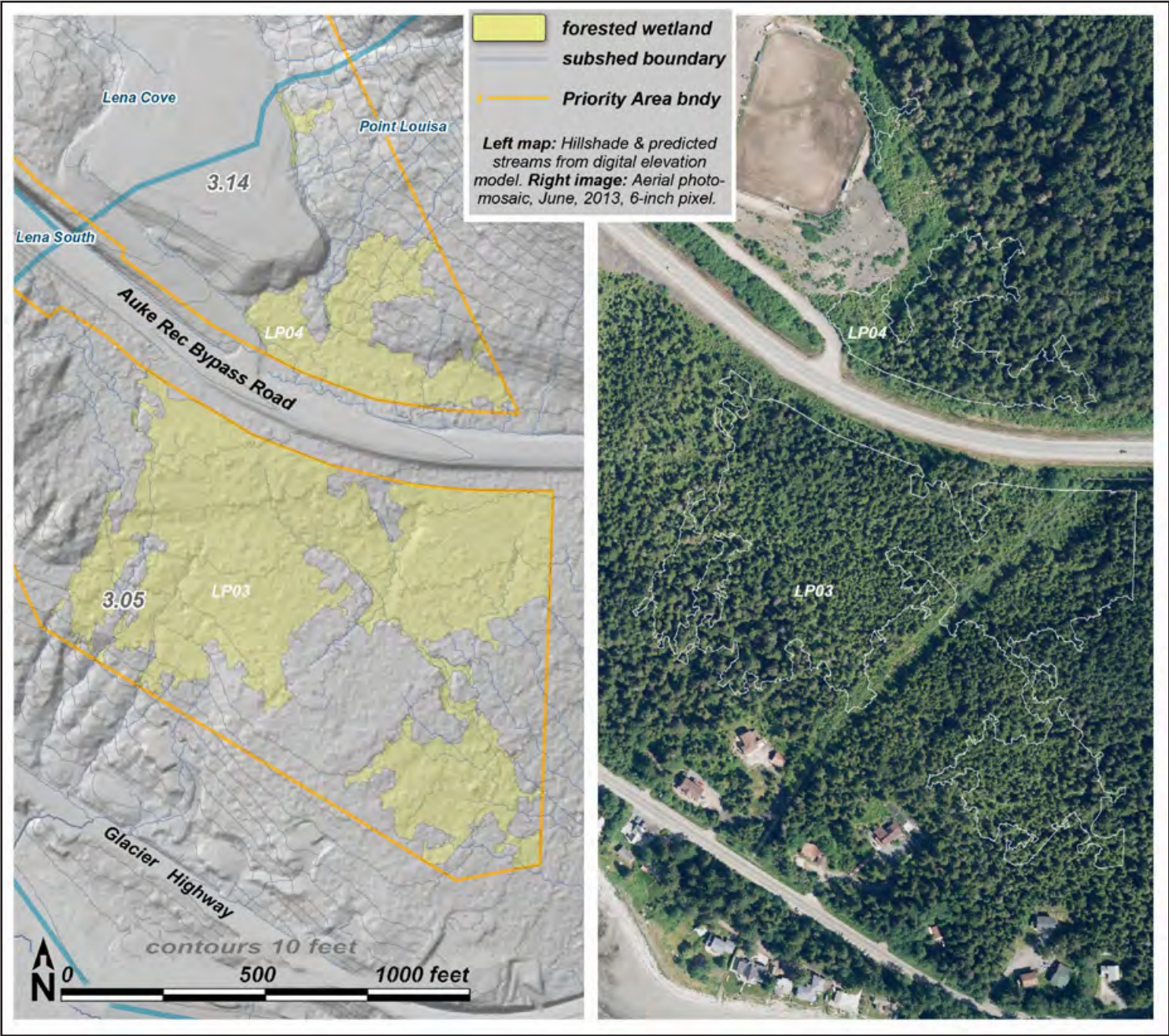
LP02 • **type:** forested peatland • **acres:** 13.4 • **boundary criteria:** w-u, pa • **pin:** 8B3301070090 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.46	Higher	4.46	Higher
Nitrate Removal	4.01	Higher	5.96	Higher
Pollinator Habitat	8.48	Higher	4.34	Moderate
Stream Flow Support	8.07	Higher	1.96	Moderate
Water Cooling	7.34	Higher	3.07	Moderate
Water Warming	5.97	Higher	3.72	Moderate
Songbird, Raptor, & Mammal Habitat	8.16	Higher	2.50	Lower
Organic Nutrient Export	8.67	Higher	N.A.	N.A.
Water Storage	4.16	Moderate	5.00	Moderate
Native Plant Habitat	3.31	Moderate	2.74	Moderate
Sediment Retention & Stabilization	2.96	Moderate	2.73	Moderate
Waterbird Nesting Habitat	3.81	Moderate	0.00	Lower
Invertebrate Habitat	3.66	Moderate	1.19	Lower
Amphibian Habitat	2.89	Moderate	3.47	Lower
Carbon Sequestration	4.99	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.78	Higher
Wetland Risk	N.A.	N.A.	7.33	Higher
Wetland Ecological Condition	N.A.	N.A.	4.20	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower



LP03 • **type:** forested peatland • **acres:** 14.3 • **boundary criteria:** w-u, pa • **pin:** 8B3401000100 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.45	Higher	4.07	Moderate
Songbird, Raptor, & Mammal Habitat	7.88	Higher	3.33	Moderate
Organic Nutrient Export	8.01	Higher	N.A.	N.A.
Carbon Sequestration	7.28	Higher	N.A.	N.A.
Water Warming	2.44	Moderate	5.90	Higher
Native Plant Habitat	5.14	Moderate	2.31	Moderate
Water Cooling	4.98	Moderate	3.07	Moderate
Stream Flow Support	4.08	Moderate	1.68	Moderate
Phosphorus Retention	3.60	Moderate	3.60	Moderate
Water Storage	3.31	Moderate	6.11	Moderate
Waterbird Nesting Habitat	2.71	Moderate	0.00	Lower
Nitrate Removal	1.81	Lower	7.37	Higher
Sediment Retention & Stabilization	2.09	Lower	2.85	Moderate
Amphibian Habitat	2.28	Lower	3.23	Lower
Invertebrate Habitat	2.26	Lower	0.92	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.10	Moderate
Wetland Risk	N.A.	N.A.	4.41	Moderate
Public Use & Recognition	N.A.	N.A.	4.06	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.64	Lower



Unit maps for LP03 04



LP04 • **type:** forested peatland • **acres:** 3.1 • **boundary criteria:** w-u, pa • **pin:** 8B3401000100 •
no known or probable anadromous fish

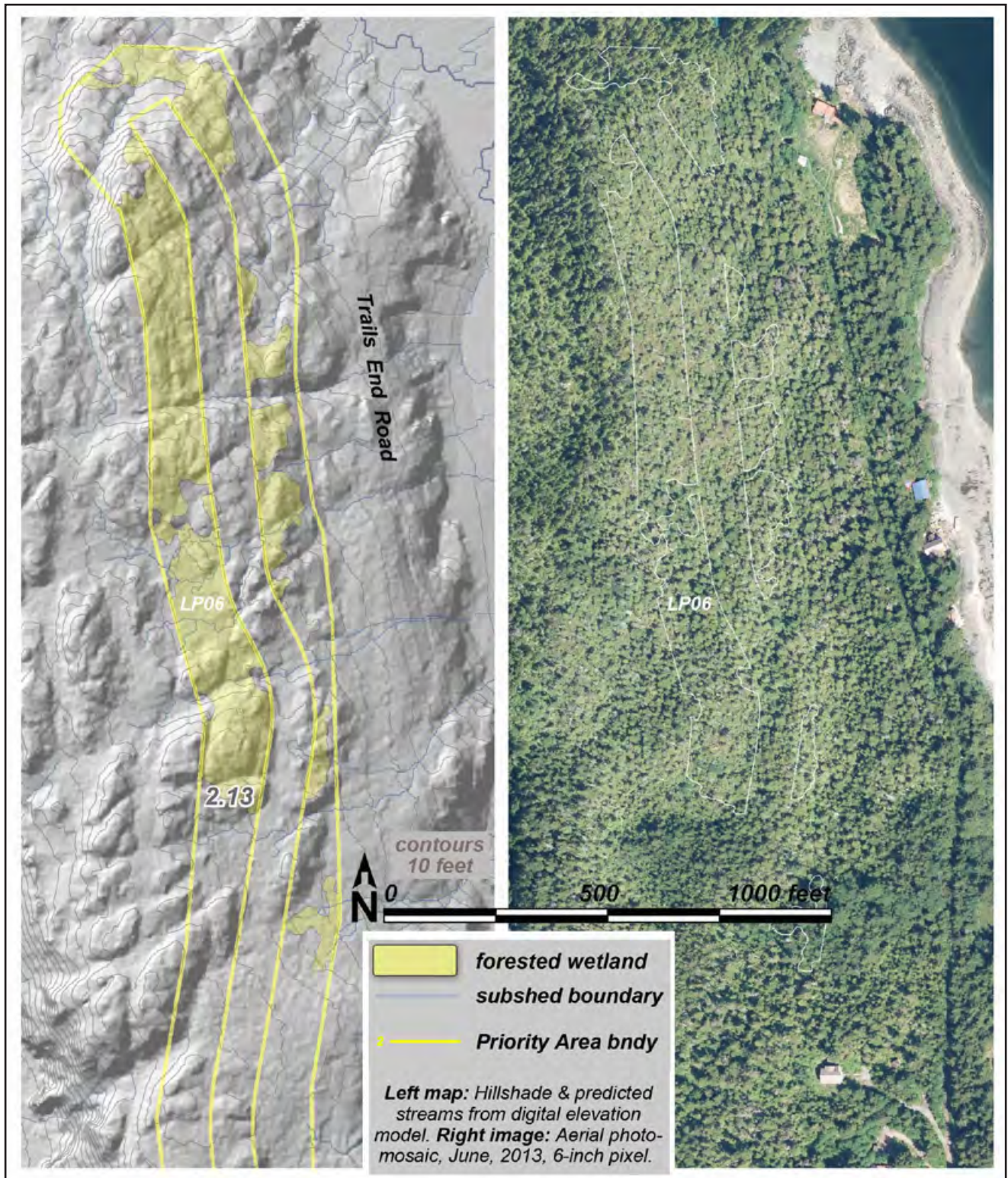
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.67	Higher	3.33	Moderate
Native Plant Habitat	5.37	Higher	2.31	Moderate
Water Warming	5.25	Higher	4.11	Moderate
Water Cooling	5.46	Higher	1.23	Lower
Organic Nutrient Export	8.05	Higher	N.A.	N.A.
Nitrate Removal	2.62	Moderate	7.17	Higher
Pollinator Habitat	6.07	Moderate	4.07	Moderate
Phosphorus Retention	3.79	Moderate	3.79	Moderate
Stream Flow Support	3.26	Moderate	1.66	Moderate
Water Storage	2.88	Moderate	6.11	Moderate
Carbon Sequestration	5.88	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.67	Lower	3.83	Moderate
Invertebrate Habitat	2.18	Lower	0.49	Lower
Amphibian Habitat	2.08	Lower	3.06	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	7.45	Moderate
Wetland Risk	N.A.	N.A.	5.98	Moderate
Public Use & Recognition	N.A.	N.A.	2.69	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.94	Lower

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LP06 • **type:** for. peatland •
acres: 6.1 • **boundary criteria:**
w-u, pa • **pin:** 8B3601020070 •
no known or probable anadromous
fish



Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.34	Higher	10.00	Higher
Water Cooling	5.94	Higher	2.42	Moderate
Resident Fish Habitat	6.65	Moderate	7.69	Higher
Pollinator Habitat	5.11	Moderate	7.99	Higher
Native Plant Habitat	4.21	Moderate	7.14	Higher
Stream Flow Support	3.36	Moderate	6.21	Higher
Nitrate Removal	2.01	Moderate	8.96	Higher
Anadromous Fish Habitat	6.91	Moderate	6.67	Moderate
Water Warming	4.62	Moderate	3.66	Moderate
Phosphorus Retention	3.20	Moderate	3.20	Moderate
Amphibian Habitat	2.88	Moderate	5.00	Moderate
Water Storage	3.82	Moderate	3.06	Lower
Waterbird Nesting Habitat	3.21	Moderate	0.00	Lower
Organic Nutrient Export	7.02	Moderate	N.A.	N.A.
Carbon Sequestration	4.12	Moderate	N.A.	N.A.
Invertebrate Habitat	1.51	Lower	10.00	Higher
Sediment Retention & Stabilization	1.70	Lower	3.04	Moderate
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	8.12	Higher
Wetland Ecological Condition	N.A.	N.A.	6.88	Higher
Wetland Stressors	N.A.	N.A.	7.40	Moderate
Public Use & Recognition	N.A.	N.A.	3.81	Moderate
Wetland Sensitivity	N.A.	N.A.	2.08	Lower



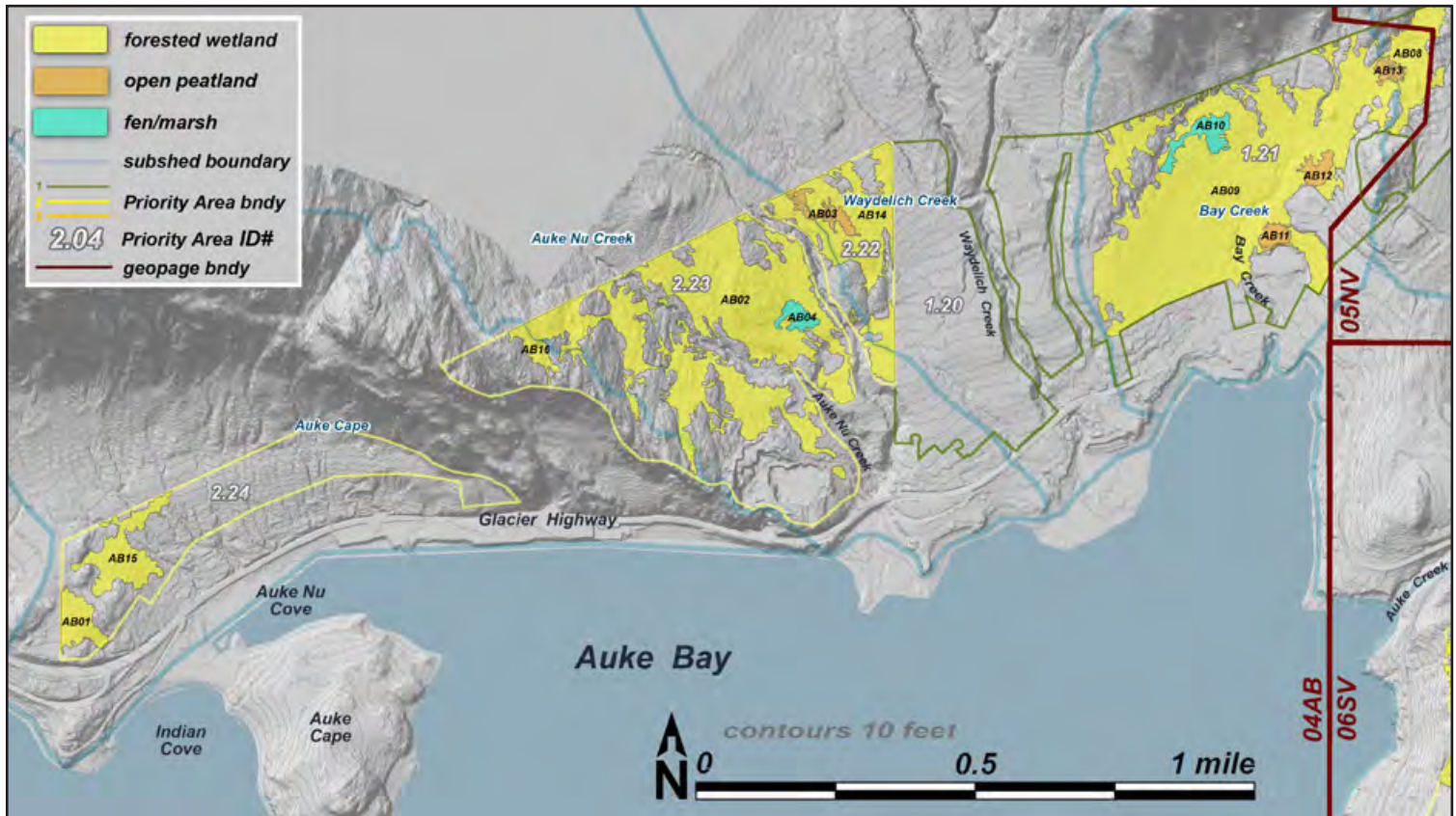
Unit map for LP06

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LP11 • **type:** forested peatland • **acres:** 5.5 • **boundary criteria:** w-u, pa • **pin:** 8B3301070090, 8B3301010120 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.78	Higher	4.34	Moderate
Songbird, Raptor, & Mammal Habitat	8.38	Higher	2.50	Lower
Organic Nutrient Export	8.42	Higher	N.A.	N.A.
Stream Flow Support	5.04	Moderate	5.65	Higher
Water Cooling	4.66	Moderate	6.05	Higher
Water Warming	2.94	Moderate	8.13	Higher
Resident Fish Habitat	6.00	Moderate	4.62	Moderate
Anadromous Fish Habitat	5.48	Moderate	4.00	Moderate
Native Plant Habitat	4.84	Moderate	2.74	Moderate
Water Storage	4.14	Moderate	1.11	Lower
Sediment Retention & Stabilization	2.32	Moderate	0.43	Lower
Carbon Sequestration	5.77	Moderate	N.A.	N.A.
Nitrate Removal	1.72	Lower	3.54	Moderate
Invertebrate Habitat	2.34	Lower	2.39	Lower
Amphibian Habitat	2.10	Lower	3.65	Lower
Phosphorus Retention	1.99	Lower	1.99	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.81	Moderate
Wetland Risk	N.A.	N.A.	5.97	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.45	Moderate
Public Use & Recognition	N.A.	N.A.	1.19	Lower



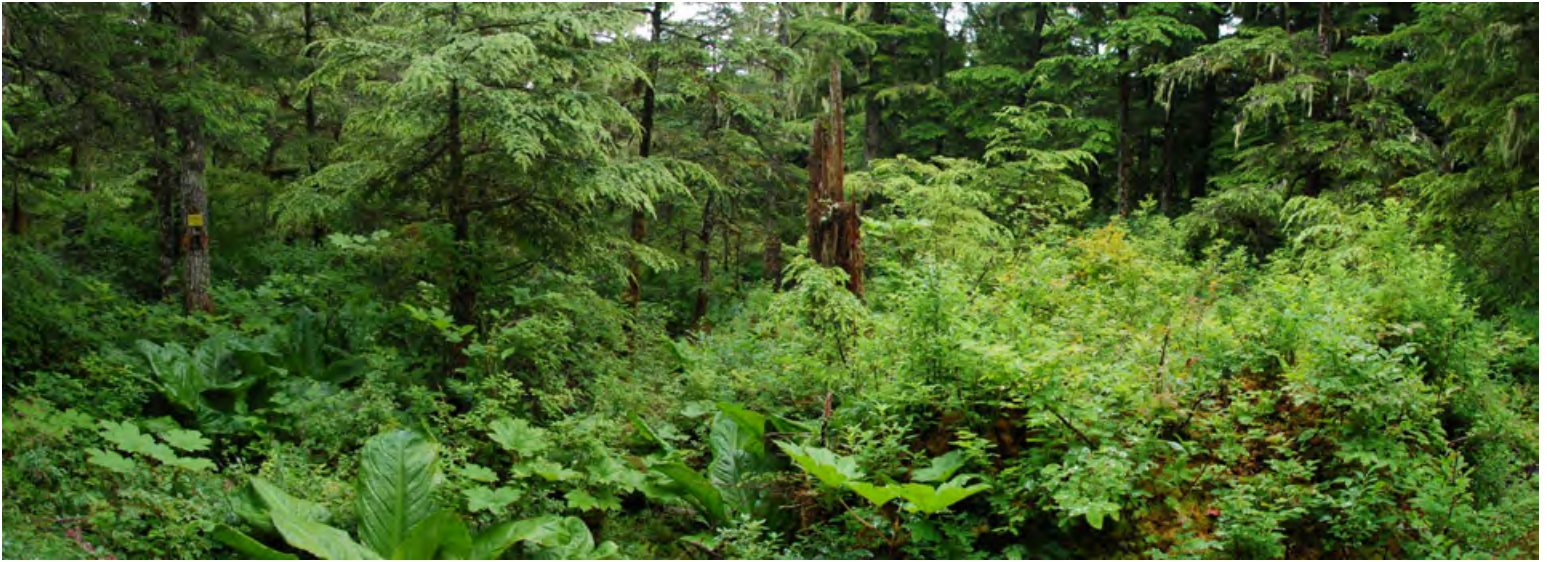
04AB units

CBJ's Auke Bay (AB) map page contains 5 Priority Areas: totaling 375 acres, about half of which are on City land. A mile-long band in the middle belongs to the University of Alaska, and another piece framing Waydelich Creek is private.

There are 16 completed wetland Assessment Areas (AAs) on this map page totaling 277 acres, representing 74% of the combined Priority Areas. The large majority of these wetlands are forested (*fw*), with small sphagnum bogs (*op*) on gentle benches to the east, and slightly higher-gradient rich fens (*fm*)

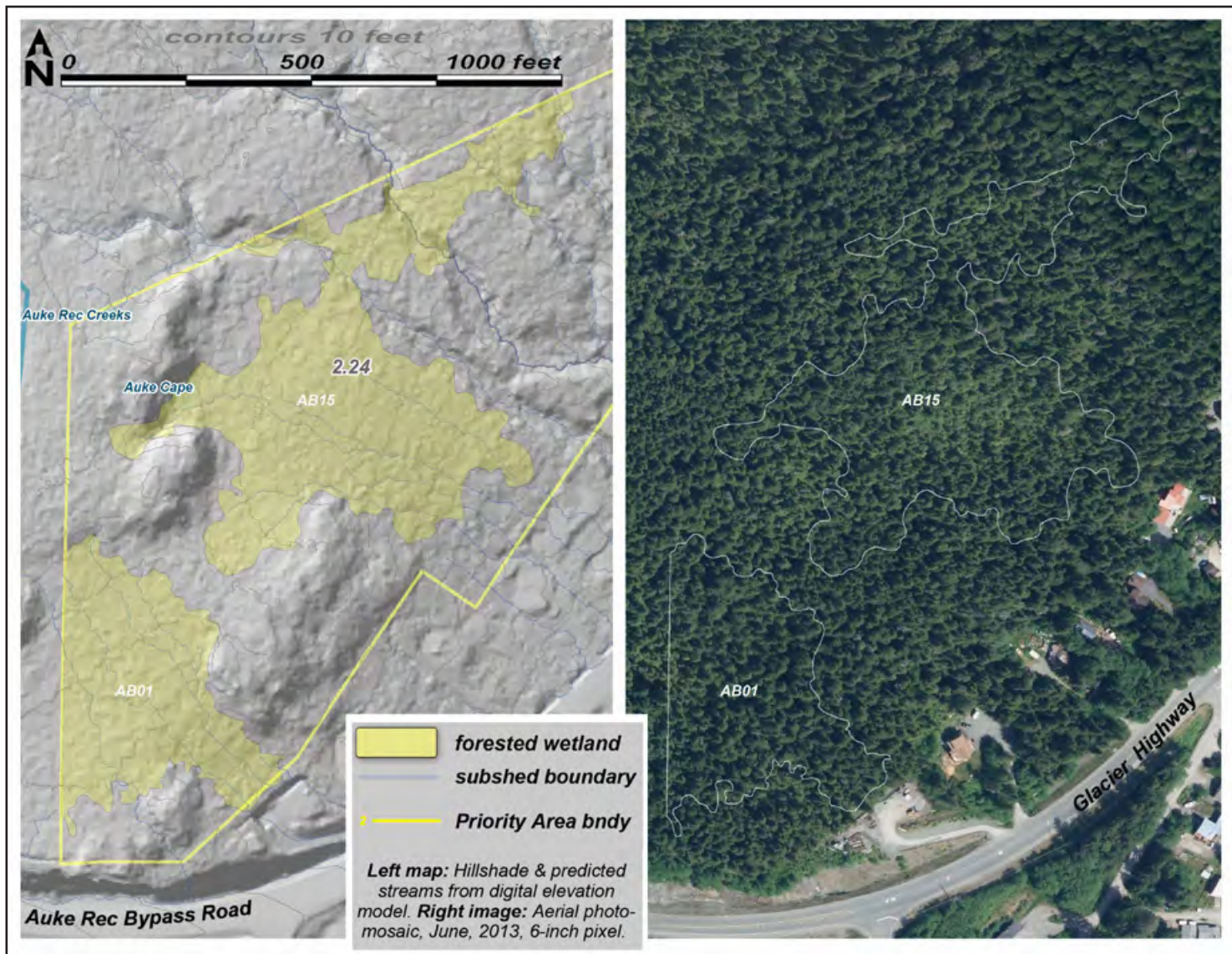
We divided the Auke Bay map page into 5 subsheds, shown here with blue lines. **Auke Cape** subshed drains 0.8 square miles southward through mostly ephemeral channels to beaches on either side of Auke Cape. **Auke Nu Creek** subshed drains 1.6 mi² southeast, mostly through the 2 deeply entrenched canyons of the stream it's named for. **Waydelich Creek** subshed drains 2.1 mi², in channels that similarly converge and canyonize before passing under Glacier Highway. **Bay Creek** subshed, home of Auke Bay Elementary School, drains 0.4 mi².

¹ The easternmost PA, 1.21, extends eastward off the Auke Bay map page onto the North Valley map page.



AB01 • **type:** forested peatland • **acres:** 3.7 • **boundary criteria:** w-u, pa • **pin:** 4B3001020020 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.85	Higher	4.07	Moderate
Native Plant Habitat	7.79	Higher	2.31	Moderate
Water Warming	7.00	Higher	4.16	Moderate
Songbird, Raptor, & Mammal Habitat	9.38	Higher	2.50	Lower
Water Cooling	6.51	Higher	1.23	Lower
Invertebrate Habitat	5.64	Higher	0.83	Lower
Organic Nutrient Export	8.58	Higher	N.A.	N.A.
Nitrate Removal	2.33	Moderate	6.57	Higher
Stream Flow Support	3.36	Moderate	2.36	Moderate
Water Storage	3.06	Moderate	1.11	Lower
Carbon Sequestration	4.84	Moderate	N.A.	N.A.
Amphibian Habitat	2.63	Lower	4.48	Moderate
Sediment Retention & Stabilization	1.10	Lower	3.81	Moderate
Phosphorus Retention	2.51	Lower	2.51	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.23	Moderate
Wetland Risk	N.A.	N.A.	6.35	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.30	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.16	Lower



Unit maps for AB01 15

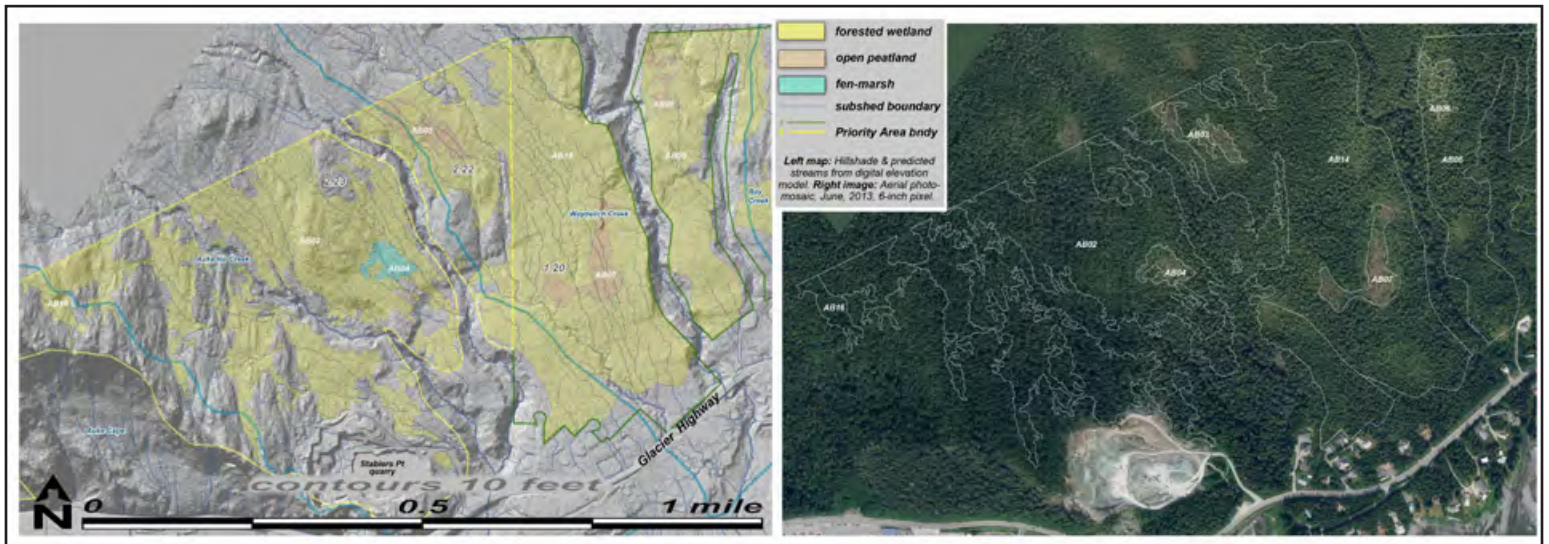


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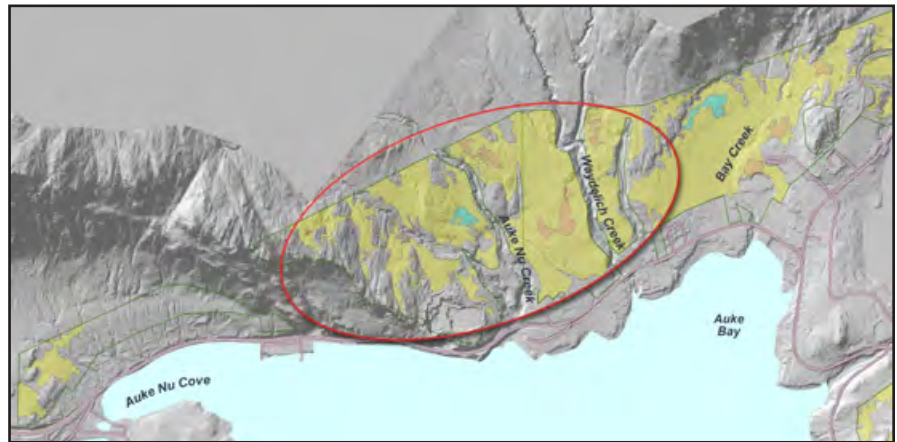


AB02 • **type:** forested peatland • **acres:** 63.2 • **boundary criteria:** w-u, type, pa, subsh • **pin:** 4B3001020020, 21 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	5.32	Higher	5.98	Higher
Phosphorus Retention	4.37	Higher	4.37	Higher
Nitrate Removal	4.04	Higher	6.57	Higher
Pollinator Habitat	7.26	Higher	4.07	Moderate
Stream Flow Support	7.23	Higher	2.38	Moderate
Water Cooling	6.32	Higher	3.07	Moderate
Songbird, Raptor, & Mammal Habitat	9.86	Higher	2.50	Lower
Invertebrate Habitat	5.77	Higher	0.94	Lower
Organic Nutrient Export	8.66	Higher	N.A.	N.A.
Native Plant Habitat	3.26	Moderate	2.31	Moderate
Amphibian Habitat	2.91	Moderate	4.89	Moderate
Sediment Retention & Stabilization	2.88	Moderate	3.91	Moderate
Water Storage	4.74	Moderate	1.11	Lower
Carbon Sequestration	5.01	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.86	Moderate
Wetland Risk	N.A.	N.A.	5.08	Moderate
Public Use & Recognition	N.A.	N.A.	2.58	Moderate
Wetland Sensitivity	N.A.	N.A.	2.20	Lower
Wetland Ecological Condition	N.A.	N.A.	1.33	Lower



**Unit maps for AB02 03
04 05 06 07 14 16**





AB03 • **type:** open peatland • **acres:** 2.0 • **boundary criteria:** type, pa • **pin:** 4B3001020020 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.05	Higher	4.47	Moderate
Songbird, Raptor, & Mammal Habitat	7.89	Higher	2.50	Lower
Organic Nutrient Export	7.72	Higher	N.A.	N.A.
Native Plant Habitat	3.85	Moderate	2.95	Moderate
Water Warming	3.57	Moderate	3.61	Moderate
Water Storage	4.22	Moderate	1.11	Lower
Water Cooling	3.42	Moderate	1.23	Lower
Carbon Sequestration	5.93	Moderate	N.A.	N.A.
Nitrate Removal	1.61	Lower	6.31	Higher
Stream Flow Support	2.02	Lower	1.56	Moderate
Sediment Retention & Stabilization	1.46	Lower	3.76	Moderate
Amphibian Habitat	2.32	Lower	3.24	Lower
Invertebrate Habitat	1.70	Lower	0.56	Lower
Phosphorus Retention	1.67	Lower	1.67	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.79	Moderate
Wetland Risk	N.A.	N.A.	6.29	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.21	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower
Public Use & Recognition	N.A.	N.A.	1.59	Lower



AB04 • **type:** fen/marsh • **acres:** 1.5 • **boundary criteria:** type • **pin:** 4B3001020020 60 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.06	Higher	5.00	Moderate
Pollinator Habitat	7.41	Higher	4.47	Moderate
Organic Nutrient Export	7.90	Higher	N.A.	N.A.
Amphibian Habitat	4.72	Moderate	6.44	Higher
Native Plant Habitat	4.34	Moderate	2.95	Moderate
Water Warming	3.70	Moderate	3.82	Moderate
Invertebrate Habitat	4.75	Moderate	1.44	Lower
Waterbird Feeding Habitat	4.48	Moderate	0.00	Lower
Water Storage	4.22	Moderate	1.11	Lower
Water Cooling	3.26	Moderate	1.23	Lower
Carbon Sequestration	5.66	Moderate	N.A.	N.A.
Nitrate Removal	1.79	Lower	6.57	Higher
Stream Flow Support	3.15	Lower	2.18	Moderate
Sediment Retention & Stabilization	1.74	Lower	3.86	Moderate
Phosphorus Retention	1.83	Lower	1.83	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.79	Moderate
Wetland Sensitivity	N.A.	N.A.	6.77	Moderate
Wetland Risk	N.A.	N.A.	6.16	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.92	Moderate
Public Use & Recognition	N.A.	N.A.	1.59	Lower



AB05 • **type:** forested peatland
 • **acres:** 23.52 • **boundary**
criteria: w-u, type, pa, subsh •
pin: 4B2801040270 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	7.48	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.77	Moderate	7.56	Higher
Pollinator Habitat	4.79	Moderate	8.42	Higher
Native Plant Habitat	4.22	Moderate	7.76	Higher
Invertebrate Habitat	4.10	Moderate	10.00	Higher
Sediment Retention & Stabilization	3.61	Moderate	10.00	Higher
Amphibian Habitat	3.47	Moderate	6.67	Higher
Water Cooling	4.60	Moderate	2.63	Moderate
Stream Flow Support	4.03	Moderate	2.05	Moderate
Phosphorus Retention	3.08	Moderate	3.08	Moderate
Nitrate Removal	2.54	Moderate	3.54	Moderate
Organic Nutrient Export	6.81	Moderate	N.A.	N.A.
Water Storage	1.40	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.73	Higher
Wetland Stressors	N.A.	N.A.	7.13	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.38	Moderate
Wetland Sensitivity	N.A.	N.A.	3.98	Lower
Public Use & Recognition	N.A.	N.A.	1.76	Lower



AB06 • **type:** open peatland
 • **acres:** 1.09 • **bound-**
ary criteria: type, pa • **pin:**
 4B2801040270 • no known or
 probable anadromous fish • no
 known or probable anadromous
 fish

this is just the AB05 table for
 a placeholder - Paul's xlsx
 doesn't have the new 2015
 additions

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	7.48	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.77	Moderate	7.56	Higher
Pollinator Habitat	4.79	Moderate	8.42	Higher
Native Plant Habitat	4.22	Moderate	7.76	Higher
Invertebrate Habitat	4.10	Moderate	10.00	Higher
Sediment Retention & Stabilization	3.61	Moderate	10.00	Higher
Amphibian Habitat	3.47	Moderate	6.67	Higher
Water Cooling	4.60	Moderate	2.63	Moderate
Stream Flow Support	4.03	Moderate	2.05	Moderate
Phosphorus Retention	3.08	Moderate	3.08	Moderate
Nitrate Removal	2.54	Moderate	3.54	Moderate
Organic Nutrient Export	6.81	Moderate	N.A.	N.A.
Water Storage	1.40	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.73	Higher
Wetland Stressors	N.A.	N.A.	7.13	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.38	Moderate
Wetland Sensitivity	N.A.	N.A.	3.98	Lower
Public Use & Recognition	N.A.	N.A.	1.76	Lower

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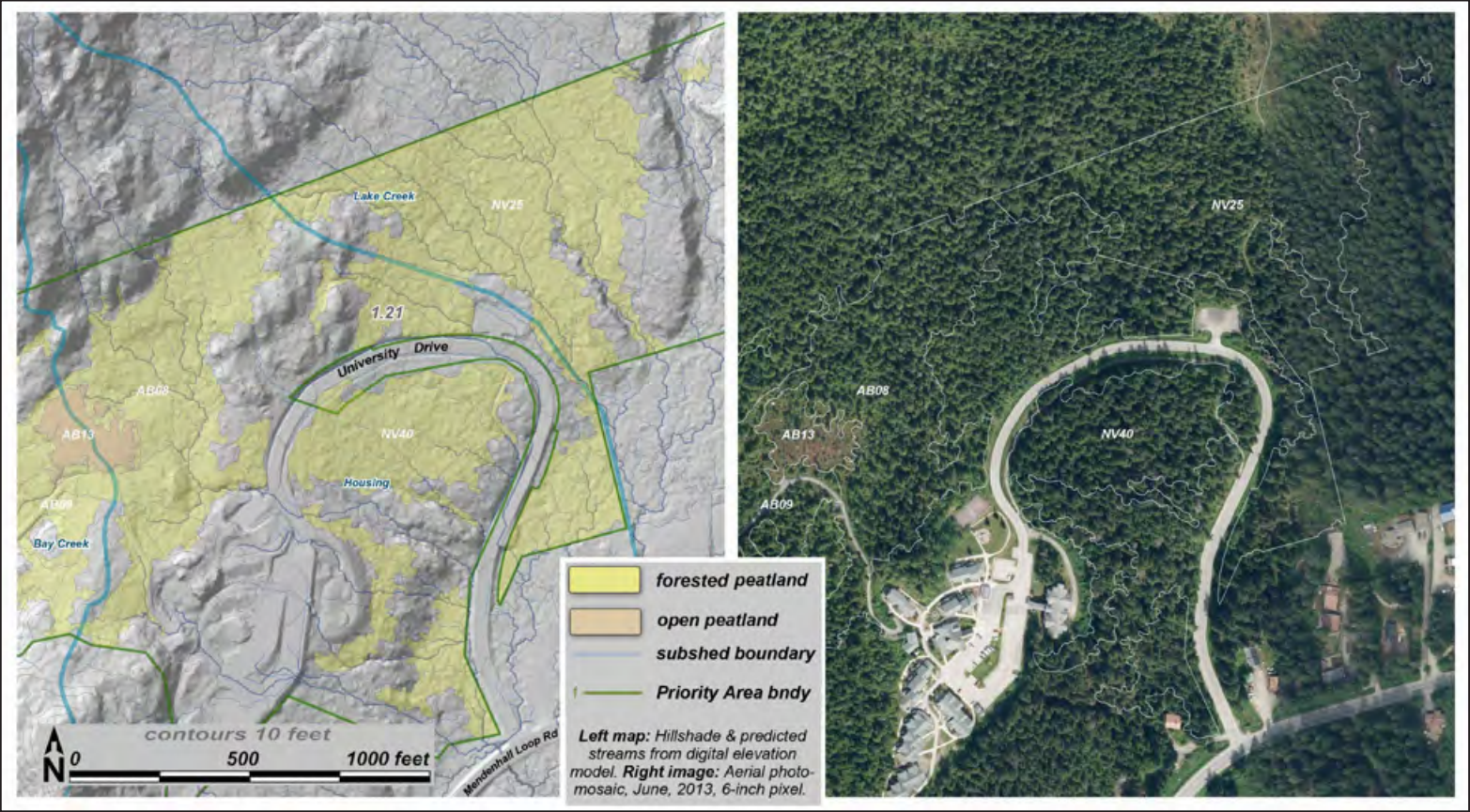
AB07 • **type:** open peatland • **acres:** 3.69 • **boundary criteria:** type • **pin:** 4B2801040270 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.89	Higher	9.40	Higher
Songbird, Raptor, & Mammal Habitat	7.80	Higher	8.67	Higher
Waterbird Nesting Habitat	4.37	Moderate	10.00	Higher
Native Plant Habitat	3.87	Moderate	9.14	Higher
Sediment Retention & Stabilization	2.66	Moderate	10.00	Higher
Nitrate Removal	2.06	Moderate	6.57	Higher
Waterbird Feeding Habitat	4.72	Moderate	5.33	Moderate
Phosphorus Retention	3.74	Moderate	3.74	Moderate
Water Warming	3.19	Moderate	3.47	Moderate
Water Storage	4.76	Moderate	1.11	Lower
Water Cooling	3.96	Moderate	1.23	Lower
Organic Nutrient Export	7.43	Moderate	N.A.	N.A.
Carbon Sequestration	5.60	Moderate	N.A.	N.A.
Invertebrate Habitat	2.70	Lower	10.00	Higher
Amphibian Habitat	0.86	Lower	8.33	Higher
Stream Flow Support	2.27	Lower	1.76	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.79	Moderate
Wetland Risk	N.A.	N.A.	6.28	Moderate
Wetland Sensitivity	N.A.	N.A.	5.05	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.19	Moderate
Public Use & Recognition	N.A.	N.A.	1.42	Lower



AB08 • **type:** for. peatland
 • **acres:** 9.7 • **boundary criteria:** w-u, type, pa, subsh • **pin:** 4B2801030131, 40 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	3.97	Higher	3.97	Higher
Carbon Sequestration	7.82	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.70	Moderate	3.33	Moderate
Pollinator Habitat	4.82	Moderate	4.07	Moderate
Nitrate Removal	2.95	Moderate	3.54	Moderate
Invertebrate Habitat	4.94	Moderate	0.31	Lower
Water Cooling	4.60	Moderate	1.05	Lower
Amphibian Habitat	3.33	Moderate	1.42	Lower
Sediment Retention & Stabilization	3.08	Moderate	0.28	Lower
Organic Nutrient Export	7.04	Moderate	N.A.	N.A.
Stream Flow Support	1.82	Lower	2.21	Moderate
Native Plant Habitat	1.56	Lower	2.31	Moderate
Water Storage	1.09	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.24	Moderate
Wetland Risk	N.A.	N.A.	4.69	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.27	Lower
Wetland Ecological Condition	N.A.	N.A.	1.93	Lower



Unit maps for AB08 NV25 40





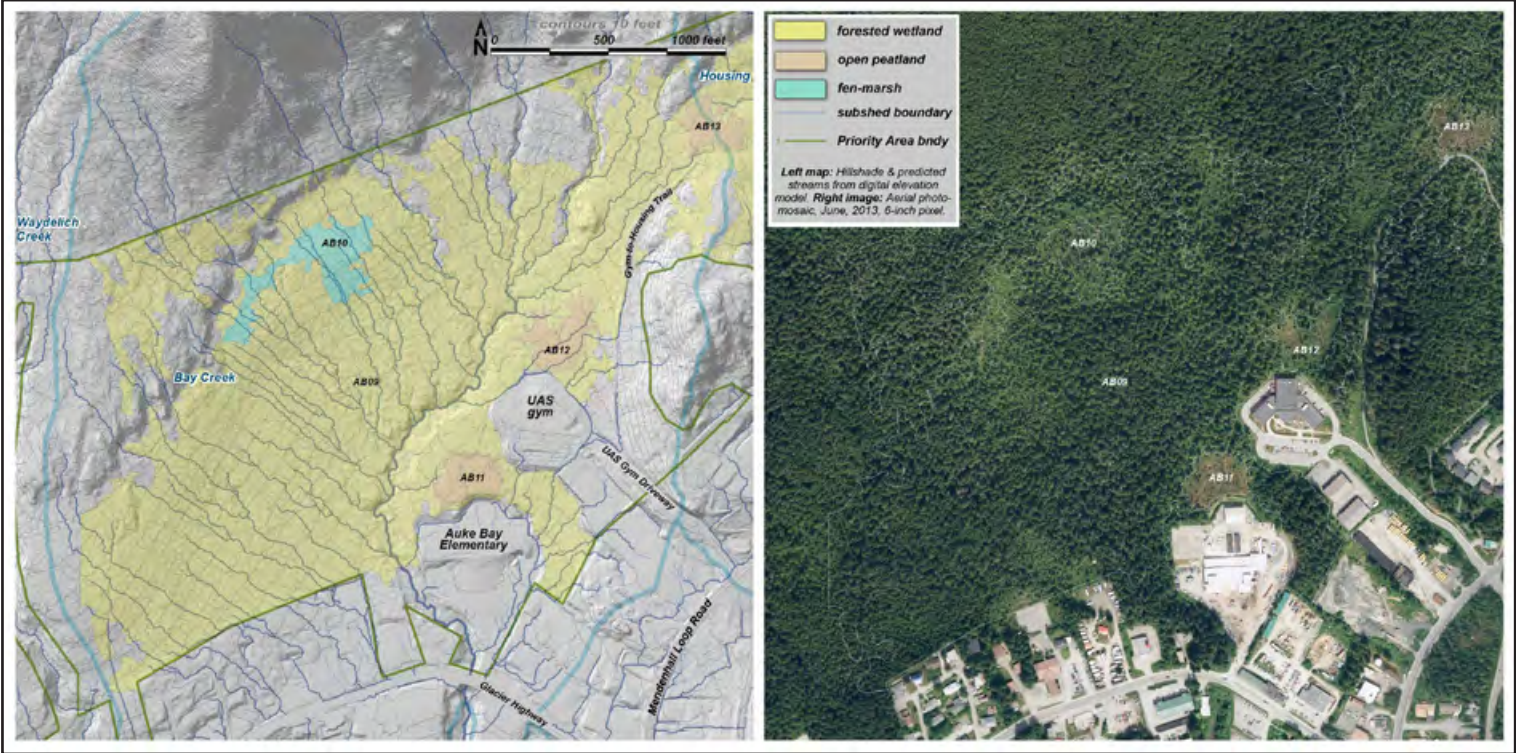
AB09 • **type:** forested peatland • **acres:** 82.1 • **boundary criteria:** w-u, type, pa, subsh • **pin:** 4B2801030121, 31, 50 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	3.89	Higher	3.89	Higher
Anadromous Fish Habitat	8.17	Higher	6.17	Moderate
Songbird, Raptor, & Mammal Habitat	7.77	Higher	3.33	Moderate
Pollinator Habitat	7.70	Higher	4.07	Moderate
Native Plant Habitat	6.15	Higher	3.42	Moderate
Organic Nutrient Export	8.28	Higher	N.A.	N.A.
Carbon Sequestration	6.73	Higher	N.A.	N.A.
Resident Fish Habitat	6.53	Moderate	7.12	Higher
Water Cooling	4.98	Moderate	6.60	Higher
Stream Flow Support	4.29	Moderate	6.85	Higher
Water Warming	2.44	Moderate	5.99	Higher
Nitrate Removal	2.13	Moderate	6.82	Higher
Sediment Retention & Stabilization	2.92	Moderate	3.93	Moderate
Water Storage	4.81	Moderate	1.11	Lower
Waterbird Nesting Habitat	3.33	Moderate	0.00	Lower
Amphibian Habitat	2.96	Moderate	3.14	Lower
Invertebrate Habitat	2.69	Lower	3.36	Moderate
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.30	Moderate
Wetland Risk	N.A.	N.A.	5.93	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.57	Moderate
Public Use & Recognition	N.A.	N.A.	3.09	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower



AB10 • **type:** fen/marsh • **acres:** 2.7 • **boundary criteria:** type • **pin:** 4B2801030131 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.90	Higher	5.56	Moderate
Pollinator Habitat	7.15	Higher	4.47	Moderate
Native Plant Habitat	5.96	Higher	2.95	Moderate
Amphibian Habitat	5.66	Higher	5.93	Moderate
Water Cooling	5.78	Higher	1.05	Lower
Organic Nutrient Export	8.05	Higher	N.A.	N.A.
Carbon Sequestration	6.41	Higher	N.A.	N.A.
Stream Flow Support	4.50	Moderate	2.26	Moderate
Nitrate Removal	2.89	Moderate	3.54	Moderate
Invertebrate Habitat	5.17	Moderate	1.44	Lower
Water Warming	4.75	Moderate	2.23	Lower
Water Storage	4.59	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.93	Moderate	0.00	Lower
Sediment Retention & Stabilization	2.75	Moderate	0.37	Lower
Phosphorus Retention	1.84	Lower	1.84	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.08	Moderate
Wetland Risk	N.A.	N.A.	6.27	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.47	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.11	Lower



Unit maps for AB09 10 11
12 13





AB11 • **type:** open peatland
 • **acres:** 1.2 • **boundary criteria:** type • **pin:** 4B2801030121, 31 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Sediment Retention & Stabilization	4.75	Higher	0.09	Lower
Carbon Sequestration	8.66	Higher	N.A.	N.A.
Waterbird Feeding Habitat	4.83	Moderate	7.33	Higher
Songbird, Raptor, & Mammal Habitat	5.38	Moderate	5.56	Moderate
Pollinator Habitat	4.88	Moderate	4.47	Moderate
Phosphorus Retention	3.07	Moderate	3.07	Moderate
Invertebrate Habitat	5.20	Moderate	0.80	Lower
Water Cooling	4.60	Moderate	0.00	Lower
Nitrate Removal	2.30	Moderate	3.03	Lower
Native Plant Habitat	2.88	Lower	2.95	Moderate
Amphibian Habitat	2.46	Lower	4.44	Moderate
Water Storage	2.20	Lower	1.67	Lower
Stream Flow Support	0.84	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.53	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	7.54	Higher
Wetland Risk	N.A.	N.A.	7.02	Higher
Wetland Stressors	N.A.	N.A.	7.16	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.99	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower



AB12 • **type:** open peatland •
acres: 1.5 • **boundary criteria:**
w-u, type • **pin:** 4B2801030121
• no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.44	Higher	5.56	Moderate
Native Plant Habitat	5.86	Higher	3.01	Moderate
Carbon Sequestration	6.85	Higher	N.A.	N.A.
Waterbird Nesting Habitat	4.18	Moderate	10.00	Higher
Pollinator Habitat	6.20	Moderate	4.47	Moderate
Waterbird Feeding Habitat	3.79	Moderate	5.33	Moderate
Water Warming	3.57	Moderate	3.06	Moderate
Phosphorus Retention	3.18	Moderate	3.18	Moderate
Water Cooling	4.18	Moderate	0.61	Lower
Water Storage	3.26	Moderate	1.11	Lower
Organic Nutrient Export	6.57	Moderate	N.A.	N.A.
Nitrate Removal	0.67	Lower	6.57	Higher
Amphibian Habitat	1.94	Lower	5.46	Moderate
Stream Flow Support	1.68	Lower	1.68	Moderate
Sediment Retention & Stabilization	1.15	Lower	2.70	Moderate
Invertebrate Habitat	2.30	Lower	1.52	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.38	Moderate
Wetland Risk	N.A.	N.A.	6.32	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.26	Moderate
Public Use & Recognition	N.A.	N.A.	3.50	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower

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AB13 • **type:** open peatland • **acres:** 1.03 • **boundary criteria:** type, subsh • **pin:** 4B2801030140
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	10.00	Higher	10.00	Higher
Water Storage	10.00	Higher	10.00	Higher
Nitrate Removal	10.00	Higher	2.78	Lower
Sediment Retention & Stabilization	10.00	Higher	0.00	Lower
Carbon Sequestration	10.00	Higher	N.A.	N.A.
Waterbird Feeding Habitat	4.83	Moderate	6.33	Higher
Songbird, Raptor, & Mammal Habitat	5.06	Moderate	5.56	Moderate
Water Cooling	4.60	Moderate	0.00	Lower
Amphibian Habitat	2.20	Lower	4.18	Moderate
Native Plant Habitat	1.55	Lower	2.95	Moderate
Invertebrate Habitat	2.24	Lower	0.72	Lower
Pollinator Habitat	0.94	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Stream Flow Support	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	0.00	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.43	Moderate
Wetland Risk	N.A.	N.A.	6.10	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.63	Moderate
Public Use & Recognition	N.A.	N.A.	2.58	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower



AB14 • **type:** forested peatland • **acres:** 14.9 • **boundary criteria:** w-u, type, pa, subsh • **pin:** 4B3001020021 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Native Plant Habitat	7.52	Higher	2.31	Moderate
Water Cooling	5.98	Higher	3.07	Moderate
Songbird, Raptor, & Mammal Habitat	8.21	Higher	2.50	Lower
Organic Nutrient Export	9.16	Higher	N.A.	N.A.
Carbon Sequestration	6.34	Higher	N.A.	N.A.
Nitrate Removal	2.12	Moderate	6.57	Higher
Pollinator Habitat	4.99	Moderate	4.07	Moderate
Stream Flow Support	3.83	Moderate	2.22	Moderate
Water Warming	3.15	Moderate	5.22	Moderate
Phosphorus Retention	2.75	Moderate	2.75	Moderate
Invertebrate Habitat	4.94	Moderate	0.67	Lower
Water Storage	3.50	Moderate	1.11	Lower
Amphibian Habitat	2.86	Moderate	3.50	Lower
Sediment Retention & Stabilization	1.61	Lower	3.71	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.73	Moderate
Wetland Risk	N.A.	N.A.	4.94	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.38	Lower
Wetland Ecological Condition	N.A.	N.A.	1.33	Lower

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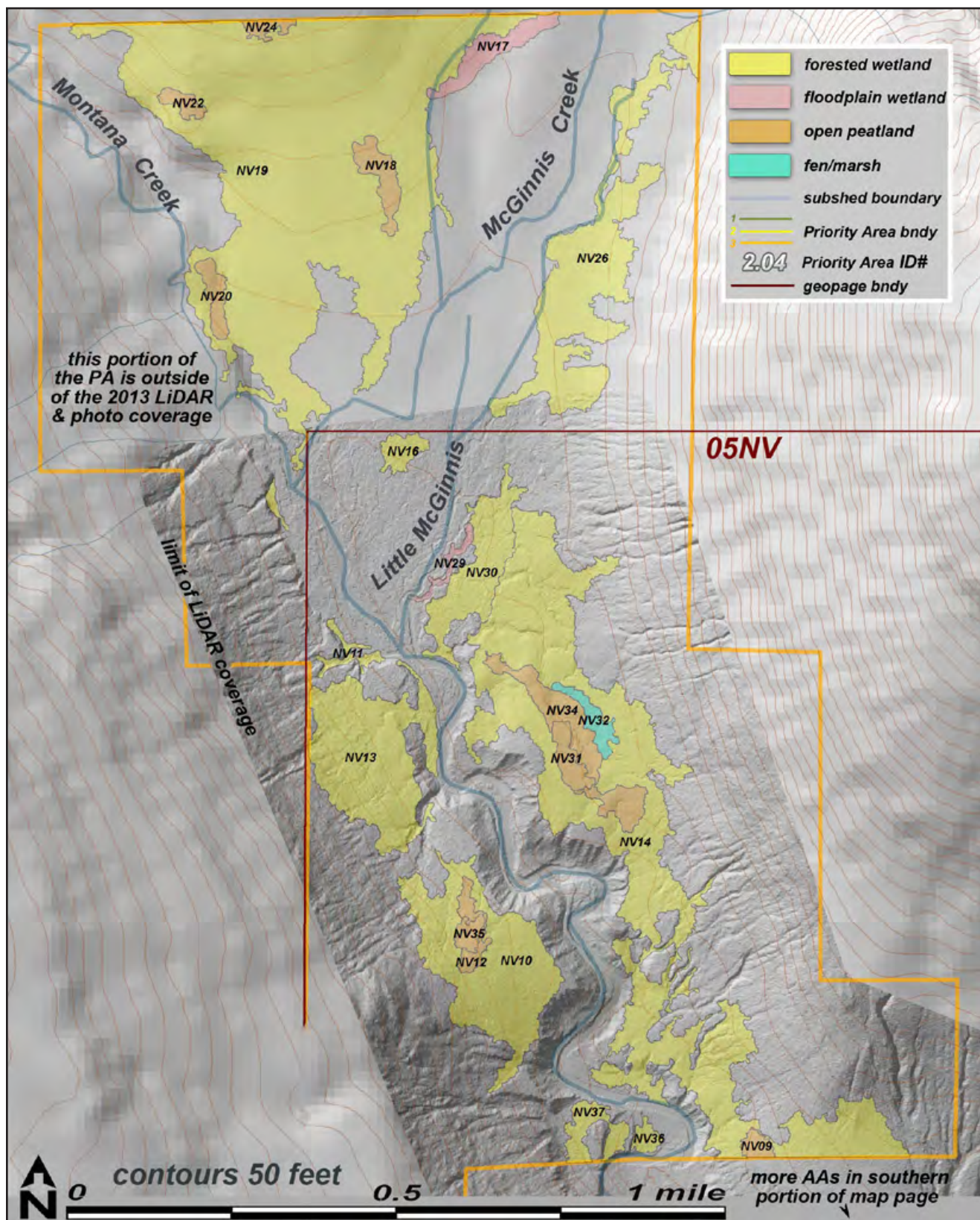
AB15 • **type:** forested peatland • **acres:** 7.3 • **boundary criteria:** w-u, pa • **pin:** 4B3001020020
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.63	Higher	4.07	Moderate
Stream Flow Support	6.72	Higher	1.84	Moderate
Native Plant Habitat	6.05	Higher	2.31	Moderate
Water Cooling	5.94	Higher	2.63	Moderate
Songbird, Raptor, & Mammal Habitat	8.24	Higher	2.50	Lower
Organic Nutrient Export	8.25	Higher	N.A.	N.A.
Water Warming	4.62	Moderate	5.92	Higher
Nitrate Removal	2.32	Moderate	6.57	Higher
Water Storage	4.49	Moderate	1.11	Lower
Sediment Retention & Stabilization	2.65	Moderate	0.43	Lower
Carbon Sequestration	5.44	Moderate	N.A.	N.A.
Invertebrate Habitat	3.05	Lower	0.62	Lower
Amphibian Habitat	2.44	Lower	3.53	Lower
Phosphorus Retention	1.71	Lower	1.71	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.23	Moderate
Wetland Risk	N.A.	N.A.	6.29	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.17	Lower
Public Use & Recognition	N.A.	N.A.	1.88	Lower



AB16 • **type:** forested peatland • **acres:** 2.2 • **boundary criteria:** w-u, subsh • **pin:** 4B3001020020 • no known or probable anadromous fish

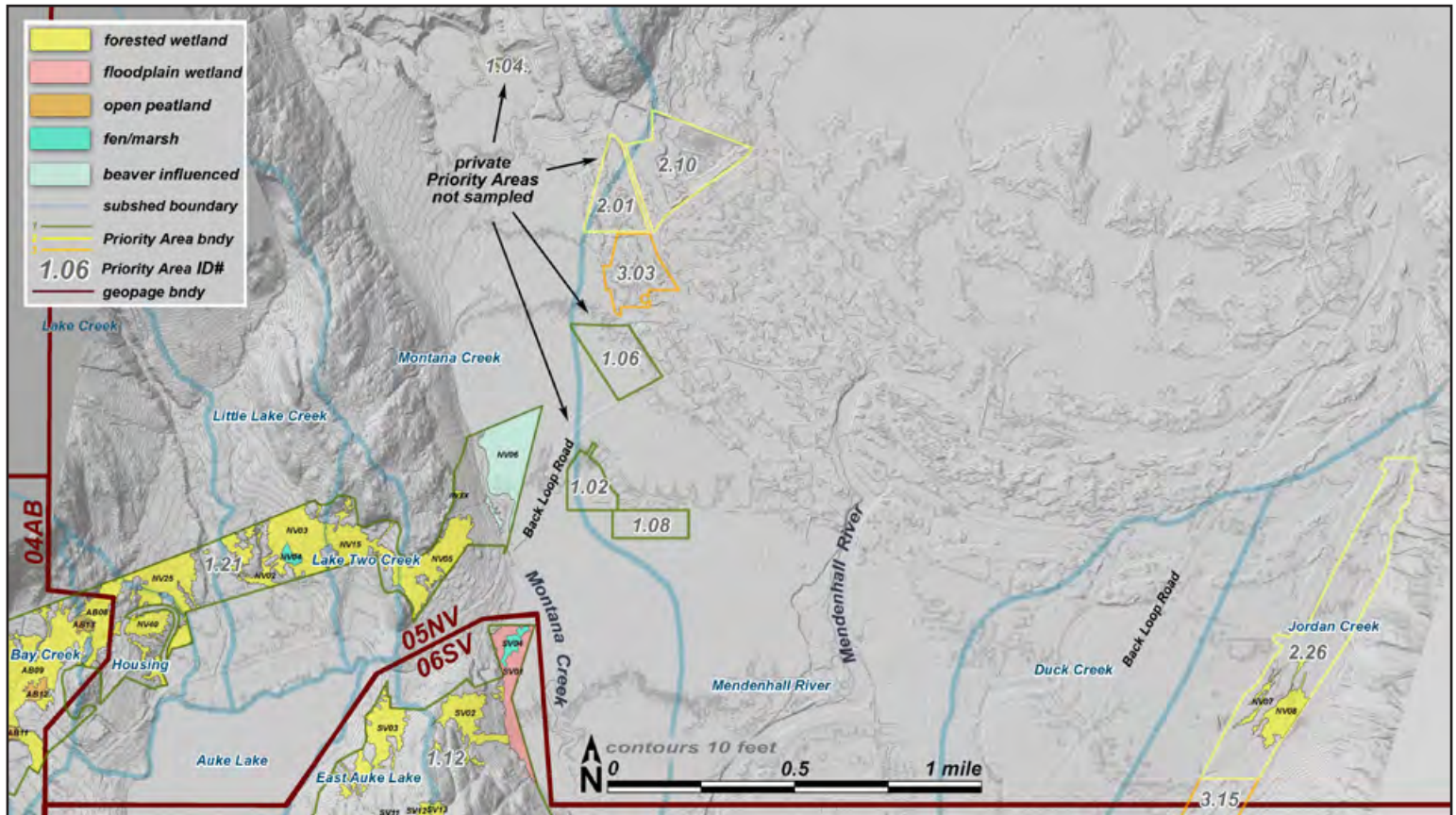
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Native Plant Habitat	6.52	Higher	2.31	Moderate
Water Warming	5.38	Higher	5.22	Moderate
Songbird, Raptor, & Mammal Habitat	8.35	Higher	2.50	Lower
Organic Nutrient Export	8.34	Higher	N.A.	N.A.
Carbon Sequestration	6.30	Higher	N.A.	N.A.
Pollinator Habitat	6.07	Moderate	4.07	Moderate
Water Cooling	4.73	Moderate	3.07	Moderate
Stream Flow Support	3.83	Moderate	2.10	Moderate
Phosphorus Retention	2.70	Moderate	2.70	Moderate
Invertebrate Habitat	4.38	Moderate	0.69	Lower
Amphibian Habitat	2.83	Moderate	3.62	Lower
Nitrate Removal	1.46	Lower	6.57	Higher
Sediment Retention & Stabilization	0.82	Lower	3.71	Moderate
Water Storage	1.89	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.73	Moderate
Wetland Risk	N.A.	N.A.	5.20	Moderate
Public Use & Recognition	N.A.	N.A.	2.38	Lower
Wetland Ecological Condition	N.A.	N.A.	1.91	Lower



05NV units

Within the North Valley (NV) map page, our Assessment Areas were distributed in 2 well-separated clusters. The northern cluster (mapped above) is far up

Montana Creek—extending off the terrain covered by the CBJ imagery and LiDAR, onto State Lands at the confluence of Montana and McGinnis Creeks. The southern units span the portion of Mendenhall Valley abutting the USFS Recreation Area.



CBJ's 05NV map page contains 9 Priority Areas totaling 1,206 acres.¹ Only 78 of these acres are on City land at the base of Thunder Mountain. Another 1,040 acres are in the large PA 3.09 owned by the State of Alaska, at the confluence of Montana and McGinnis Creeks. The remaining 100 acres are on 7 privately owned, mostly unsurveyed PAs. In 2025 we did a few "off-site" assessments for these private parcels, strictly in GIS.

Overall, we completed 31 Assessment Areas on the North Valley map page, totaling 402 acres, or 33% of the combined PAs.

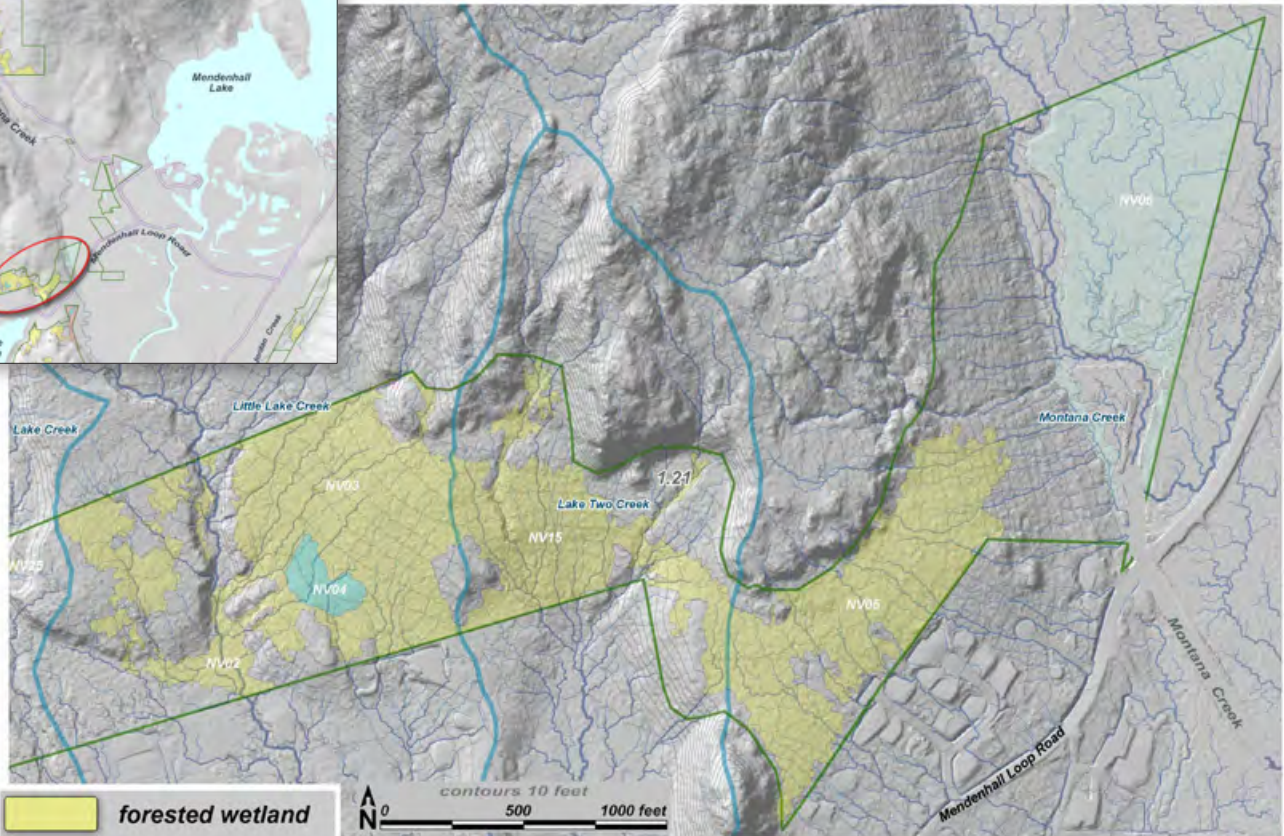
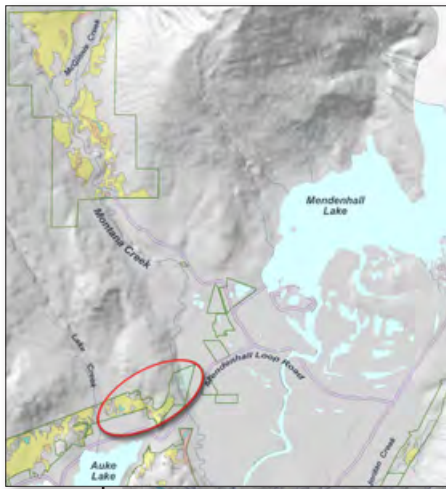
¹ This total does not include the portion of PA 1.21, previously described for the Auke Bay map page, that extends eastward onto the NV page.



NV02 • **type:** forested peatland • **acres:** 1.8 • **boundary criteria:** w-u, pa • **pin:** 4B2701080130 • known or probable anadromous fish

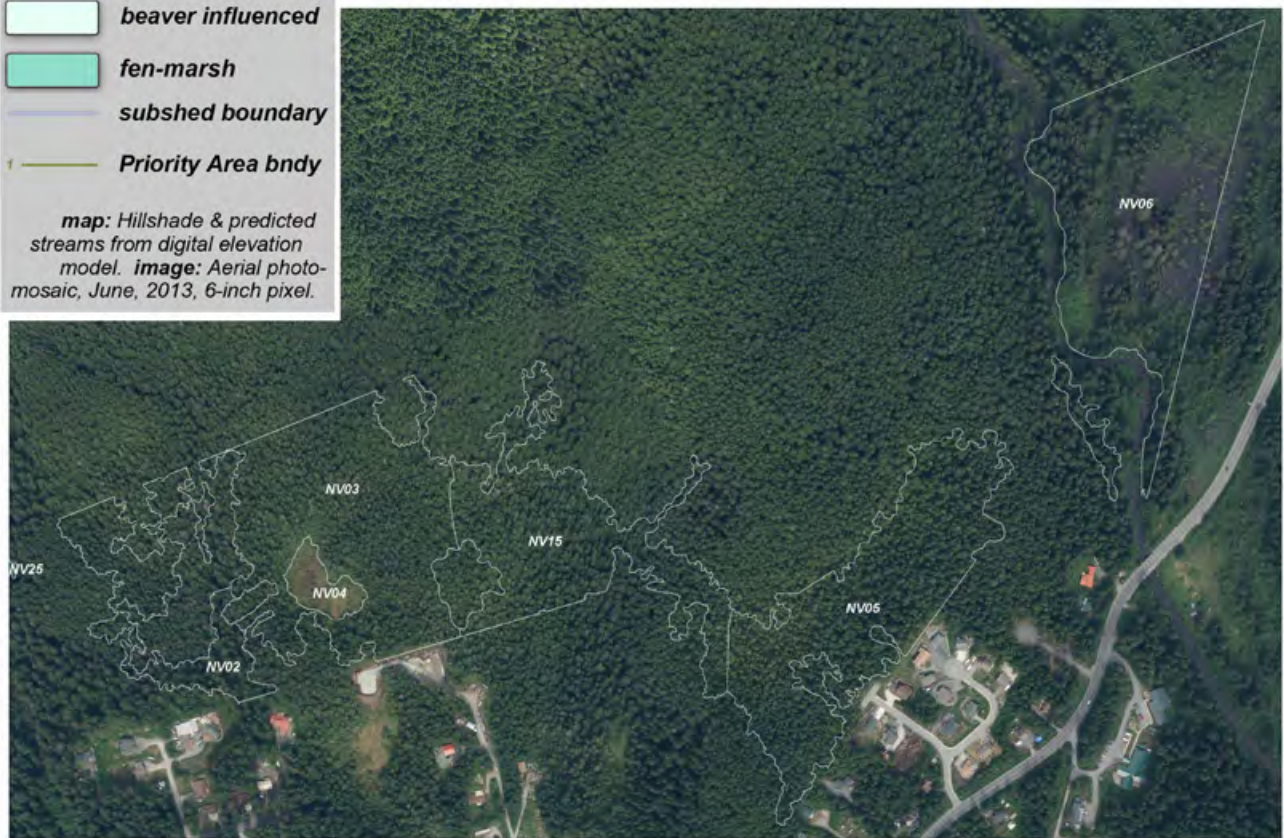
This unit was assessed during our training week and was separated from NV03 by a channel—a boundary criteria we later discarded.

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.12	Higher	10.00	Higher
Stream Flow Support	8.03	Higher	6.42	Higher
Pollinator Habitat	7.08	Higher	7.75	Higher
Native Plant Habitat	6.49	Higher	6.81	Higher
Water Warming	5.78	Higher	6.21	Higher
Anadromous Fish Habitat	7.85	Higher	4.50	Moderate
Organic Nutrient Export	8.25	Higher	N.A.	N.A.
Carbon Sequestration	6.33	Higher	N.A.	N.A.
Water Cooling	4.83	Moderate	6.90	Higher
Water Storage	3.98	Moderate	10.00	Higher
Nitrate Removal	2.19	Moderate	6.57	Higher
Resident Fish Habitat	5.85	Moderate	5.19	Moderate
Waterbird Feeding Habitat	5.49	Moderate	4.49	Moderate
Waterbird Nesting Habitat	4.34	Moderate	9.10	Moderate
Phosphorus Retention	3.42	Moderate	3.42	Moderate
Invertebrate Habitat	2.30	Lower	10.00	Higher
Amphibian Habitat	1.77	Lower	8.02	Higher
Sediment Retention & Stabilization	2.11	Lower	3.78	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.32	Moderate
Wetland Sensitivity	N.A.	N.A.	4.95	Moderate
Wetland Stressors	N.A.	N.A.	2.44	Lower
Wetland Risk	N.A.	N.A.	2.17	Lower
Public Use & Recognition	N.A.	N.A.	1.51	Lower



- forested wetland**
- beaver influenced**
- fen-marsh**
- subshed boundary**
- Priority Area bndy**

map: Hillshade & predicted streams from digital elevation model. **image:** Aerial photo-mosaic, June, 2013, 6-inch pixel.



Unit maps for NV02 03 04 05 06 15



NV03 • type: for. peatland

• **acres:** 17.7 • **boundary**

criteria: w-u, type, pa, subsh

• **pin:** 4B2701080130 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	9.09	Higher	4.07	Moderate
Native Plant Habitat	5.78	Higher	4.25	Moderate
Songbird, Raptor, & Mammal Habitat	9.59	Higher	2.50	Lower
Organic Nutrient Export	8.59	Higher	N.A.	N.A.
Carbon Sequestration	6.24	Higher	N.A.	N.A.
Stream Flow Support	4.03	Moderate	1.77	Moderate
Water Warming	3.68	Moderate	5.27	Moderate
Water Cooling	3.30	Moderate	3.07	Moderate
Amphibian Habitat	3.24	Moderate	4.66	Moderate
Phosphorus Retention	3.12	Moderate	3.12	Moderate
Sediment Retention & Stabilization	2.40	Moderate	2.81	Moderate
Water Storage	4.20	Moderate	1.11	Lower
Nitrate Removal	1.63	Lower	6.57	Higher
Invertebrate Habitat	2.74	Lower	0.93	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	5.73	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Risk	N.A.	N.A.	4.94	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.72	Moderate
Public Use & Recognition	N.A.	N.A.	1.42	Lower



NV04 • type: fen/marsh •
 acres: 1.1 • boundary criteria:
 type • pin: 4B2701080130 • no
 known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.15	Higher	5.00	Moderate
Carbon Sequestration	7.75	Higher	N.A.	N.A.
Waterbird Nesting Habitat	3.67	Moderate	10.00	Higher
Native Plant Habitat	3.96	Moderate	2.95	Moderate
Waterbird Feeding Habitat	3.76	Moderate	5.00	Moderate
Water Cooling	4.50	Moderate	0.53	Lower
Water Storage	4.24	Moderate	1.11	Lower
Water Warming	3.07	Moderate	1.02	Lower
Organic Nutrient Export	6.05	Moderate	N.A.	N.A.
Pollinator Habitat	4.00	Lower	4.47	Moderate
Amphibian Habitat	1.91	Lower	5.19	Moderate
Nitrate Removal	1.79	Lower	3.54	Moderate
Stream Flow Support	1.76	Lower	1.55	Moderate
Phosphorus Retention	2.56	Lower	2.56	Lower
Sediment Retention & Stabilization	2.05	Lower	0.33	Lower
Invertebrate Habitat	1.64	Lower	1.39	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	7.23	Higher
Wetland Stressors	N.A.	N.A.	7.39	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.91	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	2.27	Lower



NV05 • **type:** forested peat-land • **acres:** 13.1 • **bound-ary criteria:** w-u, pa, subsh • **pin:** 4B2701080130 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.00	Higher	4.07	Moderate
Songbird, Raptor, & Mammal Habitat	9.36	Higher	2.50	Lower
Invertebrate Habitat	5.52	Higher	0.93	Lower
Organic Nutrient Export	7.81	Higher	N.A.	N.A.
Water Cooling	5.08	Moderate	2.63	Moderate
Native Plant Habitat	4.54	Moderate	2.31	Moderate
Stream Flow Support	4.29	Moderate	2.33	Moderate
Phosphorus Retention	3.79	Moderate	3.79	Moderate
Amphibian Habitat	3.60	Moderate	4.47	Moderate
Water Warming	3.36	Moderate	4.94	Moderate
Nitrate Removal	2.54	Moderate	3.54	Moderate
Water Storage	4.14	Moderate	1.11	Lower
Carbon Sequestration	5.63	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.71	Lower	0.43	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Stressors	N.A.	N.A.	4.80	Lower
Wetland Risk	N.A.	N.A.	3.50	Lower
Wetland Ecological Condition	N.A.	N.A.	2.69	Lower
Public Use & Recognition	N.A.	N.A.	1.04	Lower



NV06 • **type:** beaver influenced • **acres:** 17.3 • **boundary criteria:** w-u, pa • **pin:** 4B2701080130
 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	9.89	Higher	7.83	Higher
Resident Fish Habitat	8.75	Higher	9.04	Higher
Pollinator Habitat	7.74	Higher	8.05	Higher
Stream Flow Support	7.73	Higher	8.76	Higher
Water Storage	6.80	Higher	10.00	Higher
Water Warming	6.51	Higher	5.98	Higher
Native Plant Habitat	6.22	Higher	7.24	Higher
Water Cooling	5.52	Higher	7.78	Higher
Nitrate Removal	5.49	Higher	6.57	Higher
Invertebrate Habitat	5.47	Higher	10.00	Higher
Phosphorus Retention	5.01	Higher	5.01	Higher
Sediment Retention & Stabilization	5.56	Higher	2.40	Moderate
Waterbird Nesting Habitat	6.58	Higher	0.00	Lower
Songbird, Raptor, & Mammal Habitat	6.38	Moderate	10.00	Higher
Amphibian Habitat	2.91	Moderate	2.50	Lower
Organic Nutrient Export	7.04	Moderate	N.A.	N.A.
Carbon Sequestration	4.35	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	8.48	Higher
Wetland Ecological Condition	N.A.	N.A.	8.33	Higher
Public Use & Recognition	N.A.	N.A.	8.03	Higher
Wetland Stressors	N.A.	N.A.	7.12	Moderate
Wetland Sensitivity	N.A.	N.A.	5.30	Moderate

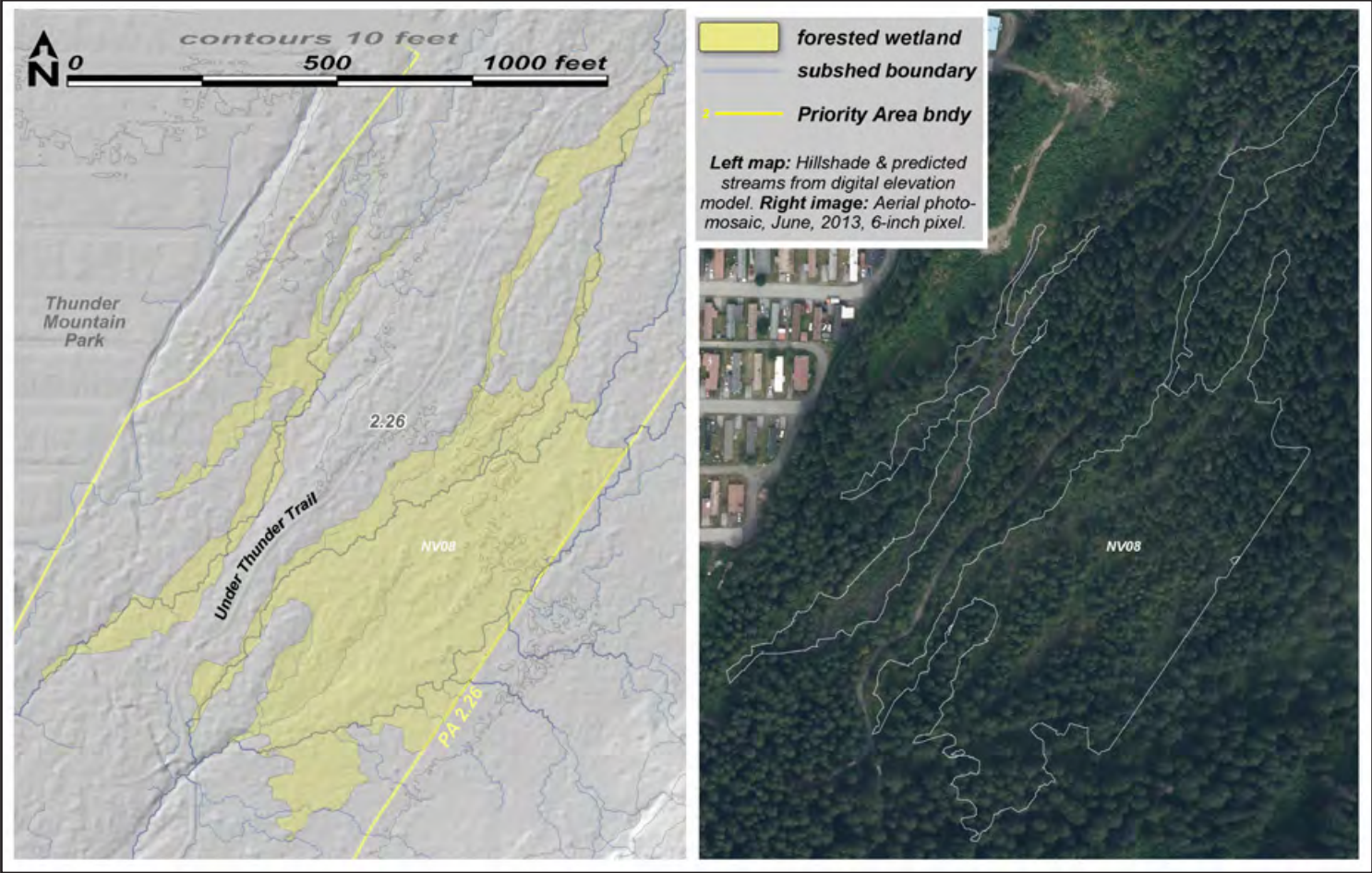
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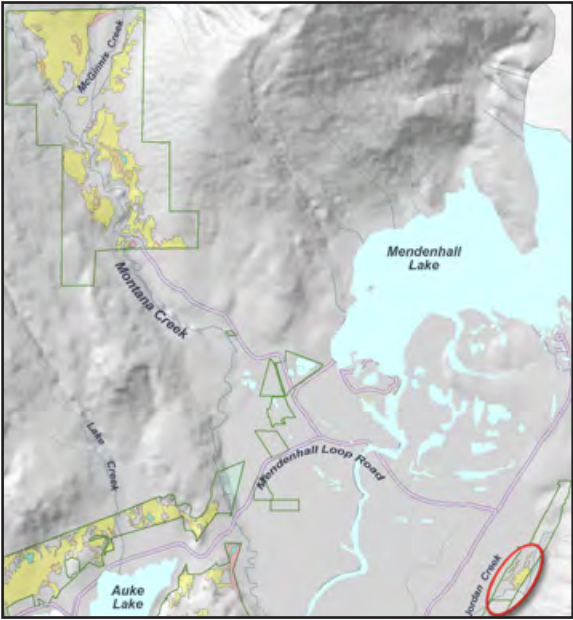
NV08 • **type:** for.peatland •
acres: 8.6 • **boundary criteria:**
 w-u, pa • **pin:** 5B2401370171 •
 no known or probable anadromous
 fish

table in error: will be recalculated

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.42	Higher	4.42	Higher
Nitrate Removal	4.13	Higher	5.93	Higher
Native Plant Habitat	5.31	Higher	0.48	Lower
Resident Fish Habitat	4.74	Moderate	7.12	Higher
Pollinator Habitat	6.62	Moderate	3.29	Moderate
Songbird, Raptor, & Mammal Habitat	6.45	Moderate	0.00	Lower
Invertebrate Habitat	4.79	Moderate	1.18	Lower
Water Cooling	4.60	Moderate	1.26	Lower
Sediment Retention & Stabilization	3.85	Moderate	1.93	Lower
Amphibian Habitat	3.54	Moderate	2.04	Lower
Carbon Sequestration	5.65	Moderate	N.A.	N.A.
Water Storage	0.55	Lower	10.00	Higher
Stream Flow Support	1.51	Lower	3.79	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.09	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	8.08	Higher
Wetland Stressors	N.A.	N.A.	8.08	Higher
Wetland Ecological Condition	N.A.	N.A.	5.17	Moderate
Public Use & Recognition	N.A.	N.A.	3.64	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower



Unit map for NV08

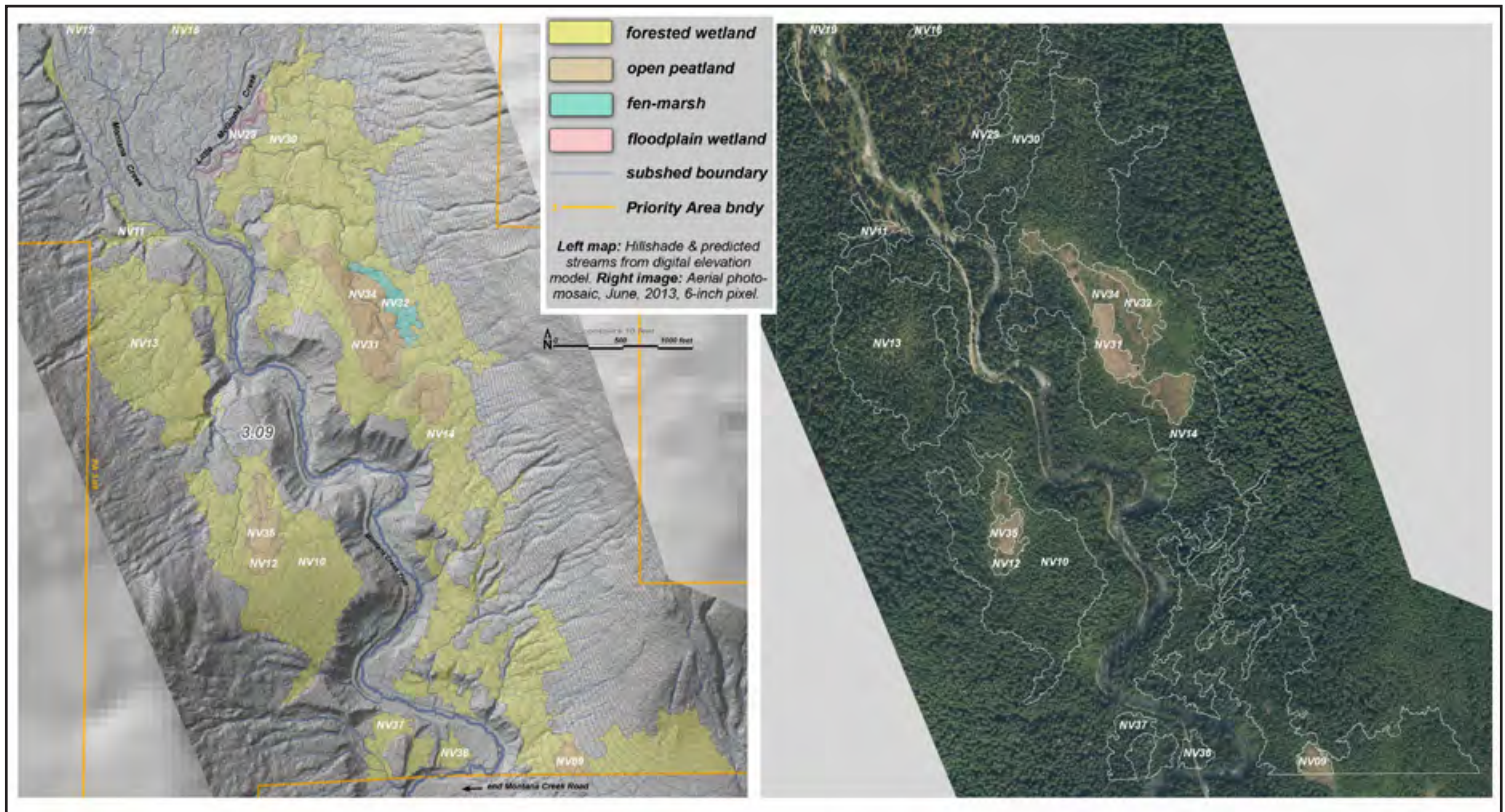


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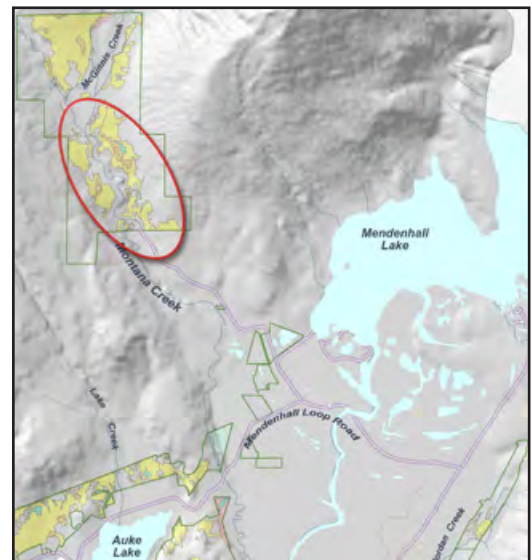


NV09 • **type:** open peatland • **acres:** 1.0 • **boundary criteria:** type, pa • **pin:** 4B2901420050 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.43	Higher	4.95	Moderate
Water Warming	5.46	Higher	2.26	Lower
Native Plant Habitat	5.34	Higher	0.48	Lower
Carbon Sequestration	6.20	Higher	N.A.	N.A.
Pollinator Habitat	4.76	Moderate	3.29	Moderate
Waterbird Feeding Habitat	3.17	Moderate	0.00	Lower
Water Cooling	2.75	Moderate	1.26	Lower
Organic Nutrient Export	7.17	Moderate	N.A.	N.A.
Water Storage	2.52	Lower	10.00	Higher
Stream Flow Support	2.77	Lower	1.44	Moderate
Amphibian Habitat	0.41	Lower	5.02	Moderate
Phosphorus Retention	1.52	Lower	1.52	Lower
Invertebrate Habitat	1.06	Lower	0.69	Lower
Sediment Retention & Stabilization	0.22	Lower	0.24	Lower
Nitrate Removal	0.00	Lower	2.32	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.93	Moderate
Wetland Risk	N.A.	N.A.	5.92	Moderate
Public Use & Recognition	N.A.	N.A.	4.41	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower
Wetland Ecological Condition	N.A.	N.A.	3.06	Lower



Unit maps for NV09 10 11 12 13 14 29 30 31 32
34 35 36 37



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NV10 • **type:** for. peatland •
acres: 22.8 • **boundary criteria:**
 w-u, type • **pin:** 4B2901420050
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.30	Higher	7.99	Higher
Songbird, Raptor, & Mammal Habitat	7.54	Higher	10.00	Higher
Stream Flow Support	6.72	Higher	1.43	Moderate
Water Cooling	5.94	Higher	3.07	Moderate
Water Storage	3.45	Moderate	10.00	Higher
Nitrate Removal	1.93	Moderate	4.34	Moderate
Water Warming	4.62	Moderate	2.47	Lower
Waterbird Nesting Habitat	3.35	Moderate	0.00	Lower
Organic Nutrient Export	7.08	Moderate	N.A.	N.A.
Carbon Sequestration	5.58	Moderate	N.A.	N.A.
Native Plant Habitat	1.91	Lower	7.14	Higher
Invertebrate Habitat	1.05	Lower	10.00	Higher
Amphibian Habitat	1.93	Lower	5.83	Moderate
Sediment Retention & Stabilization	1.88	Lower	3.74	Moderate
Phosphorus Retention	1.30	Lower	1.30	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.35	Higher
Wetland Ecological Condition	N.A.	N.A.	6.88	Higher
Public Use & Recognition	N.A.	N.A.	0.71	Lower
Wetland Risk	N.A.	N.A.	0.28	Lower
Wetland Stressors	N.A.	N.A.	0.00	Lower



NV11 • **type:** for. peatland •
acres: 1.9 • **boundary criteria:**
 w-u • **pin:** 4B2901420050 • no
 known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	7.28	Higher	2.00	Moderate
Water Cooling	6.26	Higher	3.51	Moderate
Songbird, Raptor, & Mammal Habitat	7.70	Higher	2.22	Lower
Organic Nutrient Export	8.19	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	6.20	Higher
Water Storage	4.11	Moderate	10.00	Higher
Nitrate Removal	2.70	Moderate	6.06	Higher
Pollinator Habitat	5.86	Moderate	3.29	Moderate
Native Plant Habitat	5.12	Moderate	0.66	Lower
Amphibian Habitat	4.58	Moderate	3.08	Lower
Waterbird Nesting Habitat	4.13	Moderate	0.00	Lower
Invertebrate Habitat	3.86	Moderate	1.35	Lower
Carbon Sequestration	5.48	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.02	Lower	3.00	Moderate
Phosphorus Retention	2.35	Lower	2.35	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	5.37	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	2.11	Lower
Wetland Stressors	N.A.	N.A.	0.37	Lower
Wetland Risk	N.A.	N.A.	0.00	Lower



NV12 • **type:** open peatland
 • **acres:** 1.8 • **boundary criteria:** type • **pin:** 4B2901420050
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.28	Higher	4.02	Moderate
Waterbird Nesting Habitat	6.04	Higher	9.40	Moderate
Water Warming	5.76	Higher	1.37	Lower
Carbon Sequestration	7.58	Higher	N.A.	N.A.
Water Storage	3.17	Moderate	10.00	Higher
Waterbird Feeding Habitat	4.72	Moderate	4.21	Moderate
Phosphorus Retention	3.64	Moderate	3.64	Moderate
Water Cooling	4.57	Moderate	0.74	Lower
Organic Nutrient Export	6.58	Moderate	N.A.	N.A.
Pollinator Habitat	3.07	Lower	3.15	Moderate
Stream Flow Support	2.27	Lower	1.79	Moderate
Amphibian Habitat	0.77	Lower	5.96	Moderate
Invertebrate Habitat	2.84	Lower	1.75	Lower
Native Plant Habitat	2.82	Lower	0.29	Lower
Sediment Retention & Stabilization	1.85	Lower	0.24	Lower
Nitrate Removal	0.68	Lower	1.72	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	3.96	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.83	Lower
Public Use & Recognition	N.A.	N.A.	2.11	Lower
Wetland Risk	N.A.	N.A.	1.98	Lower



NV13 • **type:** for. peatland •
acres: 22.4 • **boundary criteria:**
 w-u, pa • **pin:** 4B2901420050 •
 no known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.02	Higher	10.00	Higher
Pollinator Habitat	8.97	Higher	3.29	Moderate
Stream Flow Support	7.98	Higher	1.91	Moderate
Water Cooling	6.26	Higher	3.95	Moderate
Native Plant Habitat	5.74	Higher	1.65	Lower
Water Warming	4.12	Moderate	7.01	Higher
Water Storage	3.05	Moderate	10.00	Higher
Nitrate Removal	2.46	Moderate	4.75	Moderate
Invertebrate Habitat	3.40	Moderate	0.56	Lower
Organic Nutrient Export	7.67	Moderate	N.A.	N.A.
Carbon Sequestration	5.38	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.75	Lower	3.81	Moderate
Amphibian Habitat	2.13	Lower	3.35	Lower
Phosphorus Retention	1.78	Lower	1.78	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	7.10	Higher
Wetland Sensitivity	N.A.	N.A.	6.56	Moderate
Public Use & Recognition	N.A.	N.A.	3.50	Moderate
Wetland Risk	N.A.	N.A.	3.44	Lower
Wetland Stressors	N.A.	N.A.	2.89	Lower



NV14 • **type:** for. peatland
 • **acres:** 76.2 • **boundary**
criteria: w-u, type, pa • **pin:**
 4B2901420050 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.02	Higher	10.00	Higher
Water Warming	7.14	Higher	5.91	Higher
Pollinator Habitat	7.40	Higher	3.15	Moderate
Stream Flow Support	7.23	Higher	1.72	Moderate
Organic Nutrient Export	7.93	Higher	N.A.	N.A.
Carbon Sequestration	6.39	Higher	N.A.	N.A.
Water Cooling	3.26	Moderate	3.51	Moderate
Phosphorus Retention	3.15	Moderate	3.15	Moderate
Nitrate Removal	2.23	Moderate	5.00	Moderate
Waterbird Nesting Habitat	3.57	Moderate	0.00	Lower
Water Storage	2.69	Lower	10.00	Higher
Sediment Retention & Stabilization	0.79	Lower	4.28	Moderate
Invertebrate Habitat	2.47	Lower	1.08	Lower
Amphibian Habitat	2.39	Lower	3.35	Lower
Native Plant Habitat	1.88	Lower	1.21	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.35	Higher
Wetland Ecological Condition	N.A.	N.A.	6.16	Higher
Wetland Risk	N.A.	N.A.	2.86	Lower
Wetland Stressors	N.A.	N.A.	2.74	Lower
Public Use & Recognition	N.A.	N.A.	0.71	Lower



NV15 • **type:** forested peatland • **acres:** 9.9 • **boundary criteria:** w-u, type, subsh • **pin:** 4B2701080130 • no known or probable anadromous fish

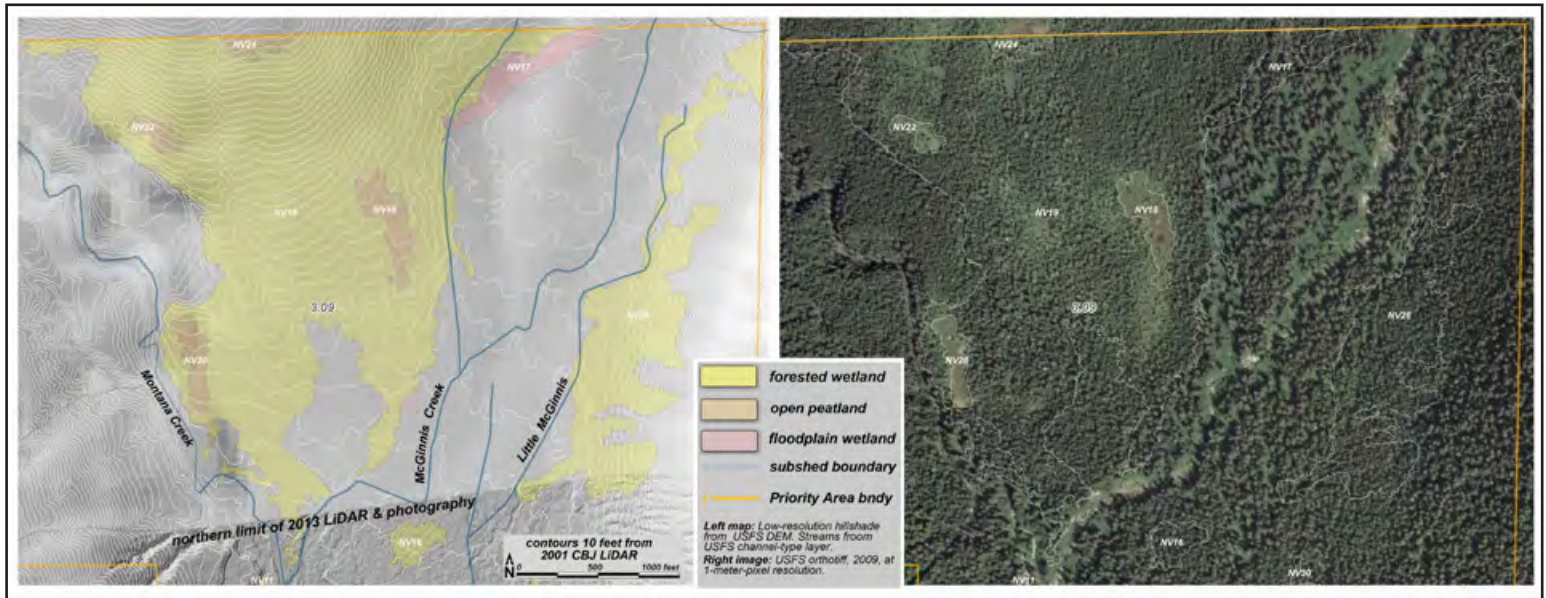
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.04	Higher	4.07	Moderate
Water Cooling	6.36	Higher	3.07	Moderate
Native Plant Habitat	6.29	Higher	3.63	Moderate
Songbird, Raptor, & Mammal Habitat	8.22	Higher	2.50	Lower
Invertebrate Habitat	7.07	Higher	0.76	Lower
Organic Nutrient Export	9.33	Higher	N.A.	N.A.
Carbon Sequestration	6.38	Higher	N.A.	N.A.
Nitrate Removal	2.26	Moderate	6.57	Higher
Stream Flow Support	4.08	Moderate	2.64	Moderate
Water Warming	2.52	Moderate	5.33	Moderate
Amphibian Habitat	3.70	Moderate	3.51	Lower
Water Storage	3.53	Moderate	1.11	Lower
Sediment Retention & Stabilization	2.08	Lower	2.31	Moderate
Phosphorus Retention	2.55	Lower	2.55	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	5.66	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Risk	N.A.	N.A.	4.62	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.17	Lower
Public Use & Recognition	N.A.	N.A.	0.95	Lower

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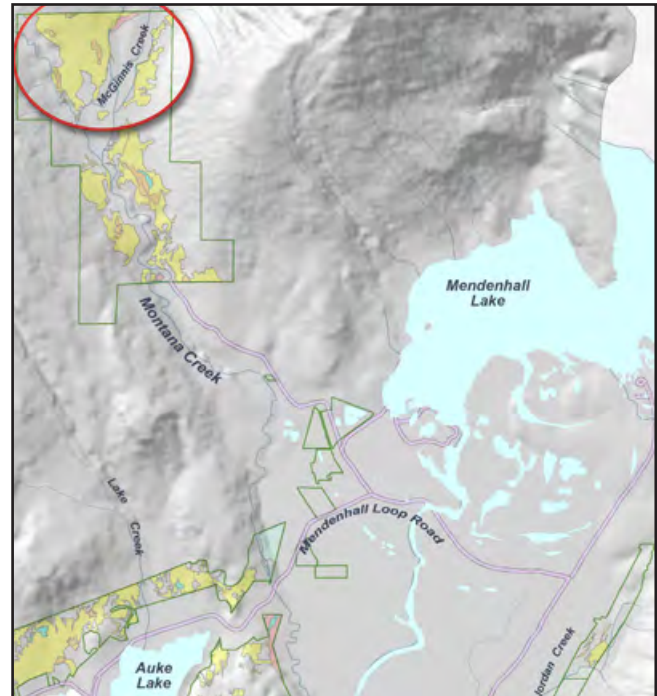


NV16 • **type:** forested peatland • **acres:** 1.9 • **boundary criteria:** w-u • **pin:** 4B2901420050 • **no** known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.15	Higher	10.00	Higher
Pollinator Habitat	7.08	Higher	3.29	Moderate
Native Plant Habitat	5.76	Higher	1.58	Lower
Water Storage	3.69	Moderate	10.00	Higher
Water Warming	3.68	Moderate	6.15	Higher
Amphibian Habitat	4.20	Moderate	4.29	Moderate
Stream Flow Support	3.53	Moderate	1.88	Moderate
Water Cooling	3.30	Moderate	3.51	Moderate
Sediment Retention & Stabilization	2.64	Moderate	3.02	Moderate
Nitrate Removal	2.37	Moderate	5.00	Moderate
Waterbird Nesting Habitat	4.46	Moderate	0.00	Lower
Invertebrate Habitat	3.26	Moderate	1.58	Lower
Phosphorus Retention	1.92	Lower	1.92	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.19	Lower	N.A.	N.A.
Carbon Sequestration	3.58	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	6.23	Higher
Wetland Sensitivity	N.A.	N.A.	3.98	Lower
Wetland Risk	N.A.	N.A.	3.54	Lower
Wetland Stressors	N.A.	N.A.	3.35	Lower
Public Use & Recognition	N.A.	N.A.	2.04	Lower



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NV17 • **type:** floodplain
 wetland • **acres:** 4.1 •
boundary criteria: w-u, type,
 pa • **pin:** 4B2901420050 • **no**
 known or probable anadromous
 fish

fish probable -table to be
 recalculated



Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Nesting Habitat	7.73	Higher	9.80	Higher
Waterbird Feeding Habitat	6.87	Higher	4.29	Moderate
Water Cooling	6.51	Higher	3.51	Moderate
Nitrate Removal	4.20	Higher	5.00	Moderate
Invertebrate Habitat	7.17	Higher	2.14	Lower
Native Plant Habitat	6.35	Higher	0.48	Lower
Water Storage	5.90	Higher	0.56	Lower
Songbird, Raptor, & Mammal Habitat	6.20	Moderate	10.00	Higher
Water Warming	2.44	Moderate	5.76	Higher
Pollinator Habitat	4.66	Moderate	3.29	Moderate
Stream Flow Support	3.78	Moderate	2.66	Moderate
Sediment Retention & Stabilization	3.77	Moderate	2.92	Moderate
Organic Nutrient Export	7.47	Moderate	N.A.	N.A.
Amphibian Habitat	1.22	Lower	6.52	Higher
Phosphorus Retention	1.71	Lower	1.71	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	3.22	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	5.82	Higher
Wetland Sensitivity	N.A.	N.A.	3.98	Lower
Wetland Stressors	N.A.	N.A.	2.67	Lower
Wetland Risk	N.A.	N.A.	2.64	Lower
Public Use & Recognition	N.A.	N.A.	0.77	Lower



NV18 • **type:** open peatland • **acres:** 3.0 • **boundary criteria:** type • **pin:** 4B2901420050 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.75	Higher	4.02	Moderate
Pollinator Habitat	7.37	Higher	3.15	Moderate
Water Warming	6.39	Higher	4.84	Moderate
Carbon Sequestration	7.89	Higher	N.A.	N.A.
Amphibian Habitat	2.83	Moderate	6.60	Higher
Stream Flow Support	5.80	Moderate	2.07	Moderate
Waterbird Nesting Habitat	5.48	Moderate	9.40	Moderate
Waterbird Feeding Habitat	5.09	Moderate	4.21	Moderate
Water Cooling	4.09	Moderate	2.63	Moderate
Phosphorus Retention	3.18	Moderate	3.18	Moderate
Invertebrate Habitat	4.24	Moderate	2.02	Lower
Native Plant Habitat	4.18	Moderate	1.10	Lower
Water Storage	2.95	Moderate	1.11	Lower
Organic Nutrient Export	7.17	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.62	Lower	0.24	Lower
Nitrate Removal	1.17	Lower	1.72	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	7.26	Higher
Wetland Ecological Condition	N.A.	N.A.	4.47	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	2.82	Lower
Wetland Risk	N.A.	N.A.	2.19	Lower



NV19 • **type:** forested peatland • **acres:** 118.9 • **boundary criteria:** w-u, type, pa • **pin:** 4B2901420050 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.89	Higher	10.00	Higher
Water Cooling	8.17	Higher	3.07	Moderate
Pollinator Habitat	8.06	Higher	3.29	Moderate
Stream Flow Support	5.97	Higher	2.34	Moderate
Native Plant Habitat	5.75	Higher	1.34	Lower
Amphibian Habitat	5.59	Higher	3.24	Lower
Invertebrate Habitat	5.55	Higher	1.44	Lower
Organic Nutrient Export	8.18	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	5.20	Moderate
Phosphorus Retention	3.71	Moderate	3.71	Moderate
Nitrate Removal	2.67	Moderate	4.24	Moderate
Waterbird Nesting Habitat	3.75	Moderate	0.00	Lower
Water Storage	2.86	Moderate	1.11	Lower
Sediment Retention & Stabilization	2.26	Lower	2.67	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	1.69	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	9.35	Higher
Wetland Ecological Condition	N.A.	N.A.	5.15	Moderate
Wetland Stressors	N.A.	N.A.	3.35	Lower
Wetland Risk	N.A.	N.A.	3.06	Lower
Public Use & Recognition	N.A.	N.A.	1.93	Lower



NV20 • **type:** open peatland • **acres:** 2.0 • **boundary criteria:** type • **pin:** 4B2901420050 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Native Plant Habitat	5.69	Higher	0.48	Lower
Carbon Sequestration	6.82	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.64	Moderate	3.70	Moderate
Pollinator Habitat	4.88	Moderate	3.29	Moderate
Waterbird Feeding Habitat	4.52	Moderate	3.96	Moderate
Amphibian Habitat	2.81	Moderate	4.45	Moderate
Water Cooling	4.60	Moderate	0.53	Lower
Sediment Retention & Stabilization	3.12	Moderate	0.28	Lower
Nitrate Removal	2.21	Moderate	1.72	Lower
Stream Flow Support	1.68	Lower	1.70	Moderate
Invertebrate Habitat	2.39	Lower	0.84	Lower
Phosphorus Retention	2.01	Lower	2.01	Lower
Water Storage	1.50	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.72	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	3.41	Moderate
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Wetland Ecological Condition	N.A.	N.A.	2.76	Lower
Wetland Stressors	N.A.	N.A.	2.76	Lower
Wetland Risk	N.A.	N.A.	1.37	Lower



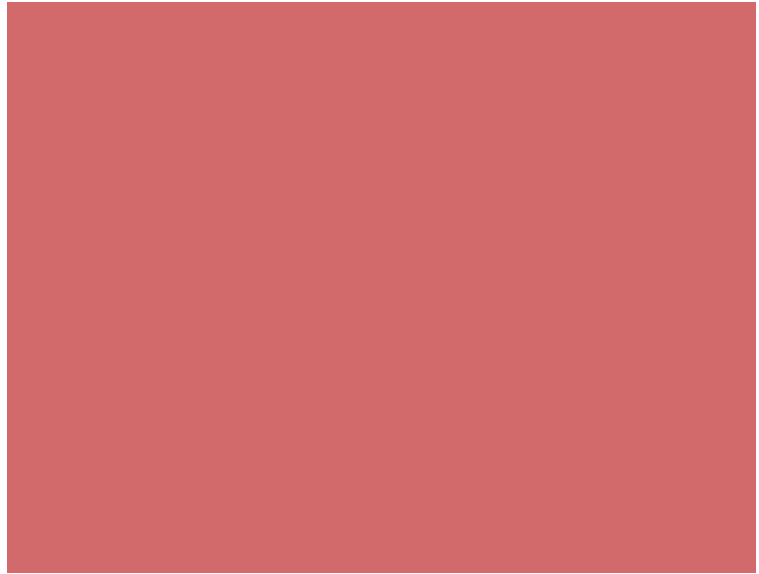
NV22 • **type:** open peatland
 • **acres:** 1.2 • **boundary criteria:** type • **pin:** 4B2901420050
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	7.50	Higher	6.62	Higher
Waterbird Nesting Habitat	6.63	Higher	9.80	Higher
Songbird, Raptor, & Mammal Habitat	7.51	Higher	3.70	Moderate
Water Storage	6.94	Higher	1.67	Lower
Native Plant Habitat	6.10	Higher	0.48	Lower
Waterbird Feeding Habitat	5.42	Moderate	3.96	Moderate
Phosphorus Retention	2.64	Moderate	2.64	Moderate
Water Cooling	3.86	Moderate	0.00	Lower
Water Warming	3.82	Moderate	0.00	Lower
Sediment Retention & Stabilization	3.79	Moderate	0.43	Lower
Invertebrate Habitat	3.27	Moderate	2.70	Lower
Nitrate Removal	2.23	Moderate	1.72	Lower
Organic Nutrient Export	6.39	Moderate	N.A.	N.A.
Carbon Sequestration	5.19	Moderate	N.A.	N.A.
Pollinator Habitat	3.75	Lower	3.29	Moderate
Stream Flow Support	1.09	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	3.55	Lower
Wetland Stressors	N.A.	N.A.	2.68	Lower
Wetland Ecological Condition	N.A.	N.A.	2.38	Lower
Public Use & Recognition	N.A.	N.A.	2.02	Lower
Wetland Risk	N.A.	N.A.	1.12	Lower



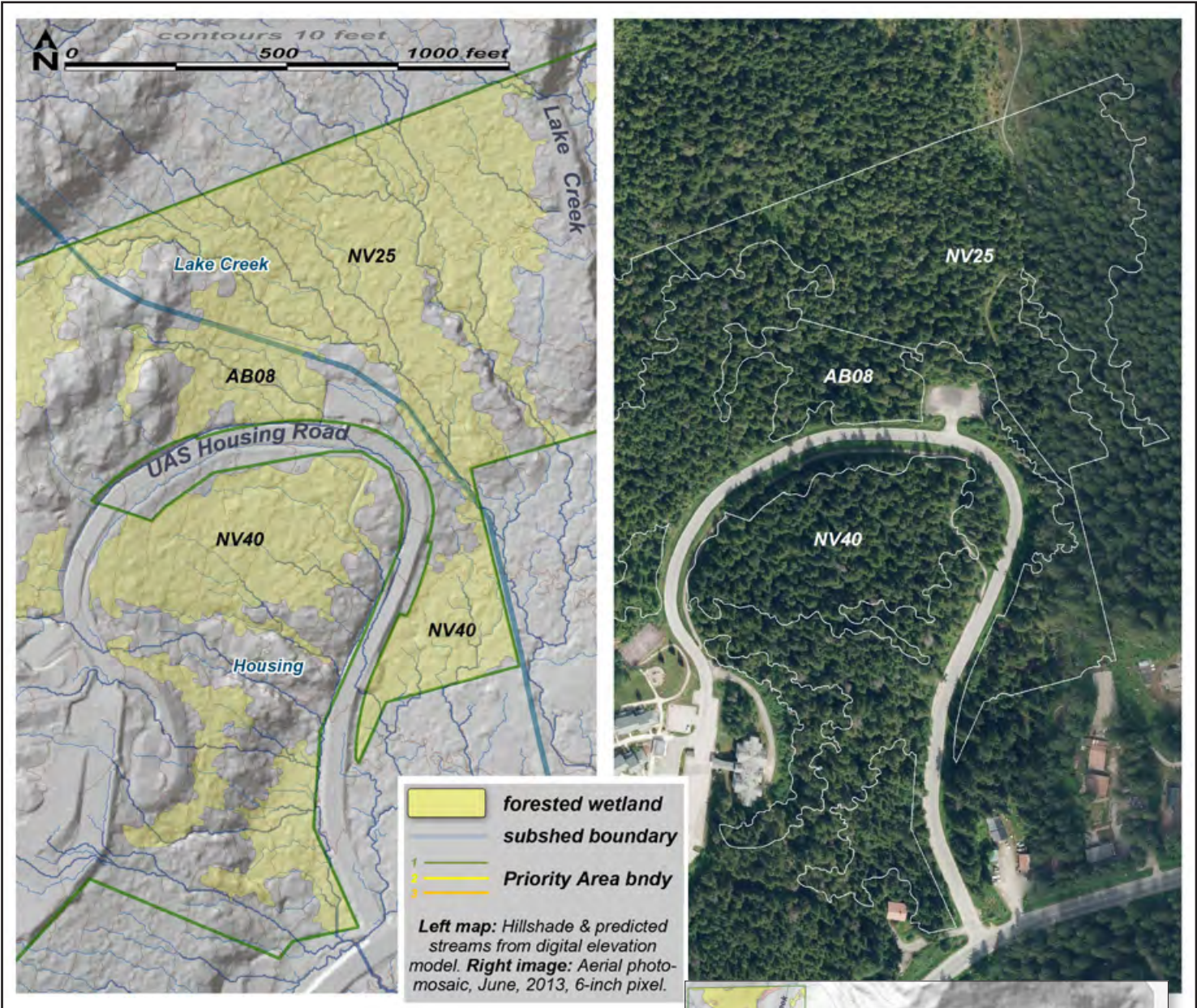
NV24 • **type:** open peatland • **acres:** 1.0 • **boundary criteria:** type, pa • **pin:** 4B2901420050 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.73	Higher	3.60	Moderate
Native Plant Habitat	5.35	Higher	0.89	Lower
Pollinator Habitat	6.63	Moderate	3.15	Moderate
Water Warming	4.45	Moderate	0.95	Lower
Waterbird Feeding Habitat	4.44	Moderate	0.00	Lower
Water Storage	3.49	Moderate	1.11	Lower
Water Cooling	3.38	Moderate	0.53	Lower
Amphibian Habitat	2.19	Lower	6.14	Moderate
Stream Flow Support	1.85	Lower	1.67	Moderate
Phosphorus Retention	2.50	Lower	2.50	Lower
Invertebrate Habitat	2.25	Lower	1.10	Lower
Sediment Retention & Stabilization	2.04	Lower	0.24	Lower
Nitrate Removal	0.18	Lower	1.72	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.02	Lower	N.A.	N.A.
Carbon Sequestration	3.71	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Wetland Stressors	N.A.	N.A.	2.68	Lower
Wetland Ecological Condition	N.A.	N.A.	2.12	Lower
Public Use & Recognition	N.A.	N.A.	2.02	Lower
Wetland Risk	N.A.	N.A.	1.01	Lower



NV25 • **type:** forested peatland • **acres:** 9.8 • **boundary criteria:** w-u, pa, subsh • **pin:** 4B2801030131 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.66	Higher	4.66	Higher
Pollinator Habitat	7.26	Higher	4.07	Moderate
Stream Flow Support	6.72	Higher	1.60	Moderate
Water Cooling	5.46	Higher	3.07	Moderate
Water Warming	5.25	Higher	5.29	Moderate
Songbird, Raptor, & Mammal Habitat	8.01	Higher	2.50	Lower
Water Storage	3.62	Moderate	10.00	Higher
Nitrate Removal	2.72	Moderate	6.67	Higher
Native Plant Habitat	4.62	Moderate	2.31	Moderate
Amphibian Habitat	3.38	Moderate	3.34	Lower
Waterbird Nesting Habitat	3.17	Moderate	0.00	Lower
Organic Nutrient Export	7.56	Moderate	N.A.	N.A.
Carbon Sequestration	5.84	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.89	Lower	2.75	Moderate
Invertebrate Habitat	1.90	Lower	1.13	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.13	Moderate
Wetland Risk	N.A.	N.A.	5.51	Moderate
Wetland Sensitivity	N.A.	N.A.	4.62	Moderate
Public Use & Recognition	N.A.	N.A.	2.23	Lower
Wetland Ecological Condition	N.A.	N.A.	1.65	Lower



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NV26 • **type:** forested peatland • **acres:** 27.8 • **boundary criteria:** w-u, pa • **pin:** 4B2901420050
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.18	Higher	10.00	Higher
Water Warming	5.15	Higher	6.16	Higher
Pollinator Habitat	7.62	Higher	3.29	Moderate
Stream Flow Support	7.48	Higher	1.76	Moderate
Water Cooling	5.21	Moderate	3.16	Moderate
Amphibian Habitat	4.27	Moderate	4.31	Moderate
Phosphorus Retention	2.88	Moderate	2.88	Moderate
Water Storage	4.43	Moderate	1.11	Lower
Native Plant Habitat	4.36	Moderate	1.74	Lower
Waterbird Nesting Habitat	3.78	Moderate	0.00	Lower
Sediment Retention & Stabilization	2.43	Moderate	0.60	Lower
Nitrate Removal	1.97	Moderate	1.72	Lower
Invertebrate Habitat	2.68	Lower	1.50	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.64	Lower	N.A.	N.A.
Carbon Sequestration	2.91	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	7.41	Higher
Wetland Sensitivity	N.A.	N.A.	5.05	Moderate
Wetland Risk	N.A.	N.A.	3.42	Lower
Wetland Stressors	N.A.	N.A.	2.74	Lower
Public Use & Recognition	N.A.	N.A.	1.23	Lower



NV29 • **type:** floodplain wetland • **acres:** 1.0 • **boundary criteria:** w-u, type • **pin:** 4B2901420050
 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.91	Higher	6.22	Higher
Songbird, Raptor, & Mammal Habitat	8.24	Higher	10.00	Higher
Water Cooling	7.82	Higher	7.64	Higher
Stream Flow Support	6.52	Higher	9.61	Higher
Nitrate Removal	4.37	Higher	6.82	Higher
Invertebrate Habitat	10.00	Higher	5.43	Moderate
Anadromous Fish Habitat	9.57	Higher	5.39	Moderate
Pollinator Habitat	9.27	Higher	3.15	Moderate
Waterbird Nesting Habitat	8.40	Higher	9.40	Moderate
Waterbird Feeding Habitat	7.89	Higher	4.21	Moderate
Native Plant Habitat	6.56	Higher	1.82	Lower
Water Storage	4.49	Moderate	10.00	Higher
Water Warming	3.99	Moderate	5.61	Moderate
Sediment Retention & Stabilization	2.80	Moderate	2.88	Moderate
Organic Nutrient Export	7.44	Moderate	N.A.	N.A.
Carbon Sequestration	4.80	Moderate	N.A.	N.A.
Amphibian Habitat	0.00	Lower	8.92	Higher
Phosphorus Retention	2.32	Lower	2.32	Lower
Wetland Sensitivity	N.A.	N.A.	5.84	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.03	Moderate
Wetland Stressors	N.A.	N.A.	2.99	Lower
Wetland Risk	N.A.	N.A.	2.63	Lower
Public Use & Recognition	N.A.	N.A.	1.46	Lower

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NV30 • **type:** forested peatland • **acres:** 10.1 • **boundary criteria:** w-u, type • **pin:** 4B2901420050
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Storage	7.69	Higher	10.00	Higher
Invertebrate Habitat	6.77	Higher	0.31	Lower
Sediment Retention & Stabilization	5.11	Higher	0.53	Lower
Carbon Sequestration	6.92	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	6.30	Moderate	10.00	Higher
Pollinator Habitat	4.73	Moderate	3.15	Moderate
Phosphorus Retention	3.28	Moderate	3.28	Moderate
Native Plant Habitat	3.26	Moderate	0.29	Lower
Nitrate Removal	2.99	Moderate	1.97	Lower
Organic Nutrient Export	6.41	Moderate	N.A.	N.A.
Stream Flow Support	2.52	Lower	2.58	Moderate
Amphibian Habitat	2.42	Lower	1.92	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Cooling	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	5.05	Moderate
Wetland Stressors	N.A.	N.A.	2.83	Lower
Wetland Ecological Condition	N.A.	N.A.	2.35	Lower
Public Use & Recognition	N.A.	N.A.	2.11	Lower
Wetland Risk	N.A.	N.A.	1.26	Lower



NV31 • **type:** open peatland • **acres:** 2.2 • **boundary criteria:** type • **pin:** 4B2901420050 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.28	Higher	4.12	Moderate
Carbon Sequestration	6.63	Higher	N.A.	N.A.
Water Storage	4.71	Moderate	10.00	Higher
Waterbird Nesting Habitat	4.50	Moderate	9.80	Higher
Waterbird Feeding Habitat	4.05	Moderate	6.29	Higher
Pollinator Habitat	4.84	Moderate	3.29	Moderate
Phosphorus Retention	2.86	Moderate	2.86	Moderate
Sediment Retention & Stabilization	2.79	Moderate	2.65	Moderate
Water Cooling	4.50	Moderate	1.23	Lower
Water Warming	3.32	Moderate	1.60	Lower
Organic Nutrient Export	6.88	Moderate	N.A.	N.A.
Stream Flow Support	2.90	Lower	1.47	Moderate
Nitrate Removal	1.59	Lower	3.99	Moderate
Amphibian Habitat	0.49	Lower	5.50	Moderate
Native Plant Habitat	3.06	Lower	0.48	Lower
Invertebrate Habitat	1.24	Lower	1.41	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	3.17	Lower
Wetland Ecological Condition	N.A.	N.A.	3.06	Lower
Wetland Risk	N.A.	N.A.	1.94	Lower
Public Use & Recognition	N.A.	N.A.	0.97	Lower

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NV32 • **type:** fen/marsh • **acres:** 2.0 • **boundary criteria:** type • **pin:** 4B2901420050 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Nesting Habitat	5.80	Higher	9.80	Higher
Songbird, Raptor, & Mammal Habitat	7.39	Higher	4.12	Moderate
Stream Flow Support	7.06	Higher	2.34	Moderate
Invertebrate Habitat	5.57	Higher	2.11	Lower
Organic Nutrient Export	7.82	Higher	N.A.	N.A.
Waterbird Feeding Habitat	4.79	Moderate	6.29	Higher
Water Storage	4.65	Moderate	10.00	Higher
Water Warming	2.56	Moderate	6.13	Higher
Pollinator Habitat	5.02	Moderate	3.29	Moderate
Water Cooling	4.82	Moderate	3.51	Moderate
Amphibian Habitat	4.10	Moderate	6.09	Moderate
Phosphorus Retention	3.23	Moderate	3.23	Moderate
Sediment Retention & Stabilization	2.34	Moderate	4.43	Moderate
Native Plant Habitat	4.70	Moderate	0.48	Lower
Carbon Sequestration	4.38	Moderate	N.A.	N.A.
Nitrate Removal	1.58	Lower	5.00	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	3.42	Lower
Public Use & Recognition	N.A.	N.A.	1.11	Lower
Wetland Risk	N.A.	N.A.	0.90	Lower
Wetland Ecological Condition	N.A.	N.A.	0.11	Lower



NV34 • **type:** open peatland • **acres:** 7.4 • **boundary criteria:** type • **pin:** 4B2901420050 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.44	Higher	7.52	Higher
Native Plant Habitat	5.34	Higher	6.95	Higher
Phosphorus Retention	4.49	Higher	4.49	Higher
Carbon Sequestration	6.24	Higher	N.A.	N.A.
Pollinator Habitat	6.45	Moderate	7.85	Higher
Water Storage	4.99	Moderate	10.00	Higher
Waterbird Feeding Habitat	4.71	Moderate	6.21	Higher
Waterbird Nesting Habitat	5.65	Moderate	9.40	Moderate
Sediment Retention & Stabilization	2.96	Moderate	2.78	Moderate
Water Cooling	3.86	Moderate	0.00	Lower
Water Warming	3.82	Moderate	1.15	Lower
Invertebrate Habitat	1.71	Lower	10.00	Higher
Nitrate Removal	1.73	Lower	4.49	Moderate
Amphibian Habitat	0.57	Lower	6.08	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Stream Flow Support	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.89	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	8.39	Higher
Wetland Ecological Condition	N.A.	N.A.	4.61	Moderate
Wetland Stressors	N.A.	N.A.	2.87	Lower
Wetland Risk	N.A.	N.A.	2.31	Lower
Public Use & Recognition	N.A.	N.A.	1.32	Lower

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NV35 • **type:** open peatland
 • **acres:** 1.1 • **boundary criteria:** type • **pin:** 4B2901420050
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	7.23	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.76	Moderate	4.12	Moderate
Pollinator Habitat	4.45	Moderate	3.29	Moderate
Water Cooling	4.60	Moderate	0.53	Lower
Waterbird Feeding Habitat	4.32	Moderate	0.00	Lower
Native Plant Habitat	3.26	Moderate	0.48	Lower
Water Storage	0.90	Lower	10.00	Higher
Stream Flow Support	1.68	Lower	1.67	Moderate
Amphibian Habitat	0.70	Lower	4.41	Moderate
Invertebrate Habitat	2.24	Lower	0.60	Lower
Sediment Retention & Stabilization	2.06	Lower	0.19	Lower
Nitrate Removal	1.65	Lower	1.46	Lower
Phosphorus Retention	0.80	Lower	0.80	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.74	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Wetland Stressors	N.A.	N.A.	2.83	Lower
Wetland Ecological Condition	N.A.	N.A.	2.67	Lower
Public Use & Recognition	N.A.	N.A.	2.11	Lower
Wetland Risk	N.A.	N.A.	1.40	Lower



NV36 • **type:** for. peatland •
acres: 1.1 • **boundary criteria:**
 w-u • **pin:** 4B2901420050 •
 known or probable anadromous

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.45	Higher	10.00	Higher
Waterbird Feeding Habitat	6.38	Higher	5.71	Higher
Water Cooling	6.58	Higher	1.21	Lower
Native Plant Habitat	5.74	Higher	0.29	Lower
Organic Nutrient Export	7.70	Higher	N.A.	N.A.
Resident Fish Habitat	7.11	Moderate	8.85	Higher
Anadromous Fish Habitat	5.91	Moderate	8.04	Higher
Water Storage	4.42	Moderate	10.00	Higher
Nitrate Removal	2.32	Moderate	7.07	Higher
Waterbird Nesting Habitat	5.63	Moderate	9.40	Moderate
Invertebrate Habitat	5.15	Moderate	3.87	Moderate
Water Warming	2.94	Moderate	3.37	Moderate
Amphibian Habitat	0.04	Lower	7.23	Higher
Pollinator Habitat	3.93	Lower	3.15	Moderate
Sediment Retention & Stabilization	2.06	Lower	3.12	Moderate
Phosphorus Retention	1.51	Lower	1.51	Lower
Stream Flow Support	1.04	Lower	0.00	Lower
Carbon Sequestration	2.08	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.73	Higher
Wetland Stressors	N.A.	N.A.	6.63	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.57	Moderate
Wetland Sensitivity	N.A.	N.A.	5.05	Moderate
Public Use & Recognition	N.A.	N.A.	2.67	Moderate



NV37 • **type:** for. peatland • **acres:** 3.2 • **boundary criteria:** w-u, pa • **pin:** 4B2901420050 • no known or probable anadromous fish

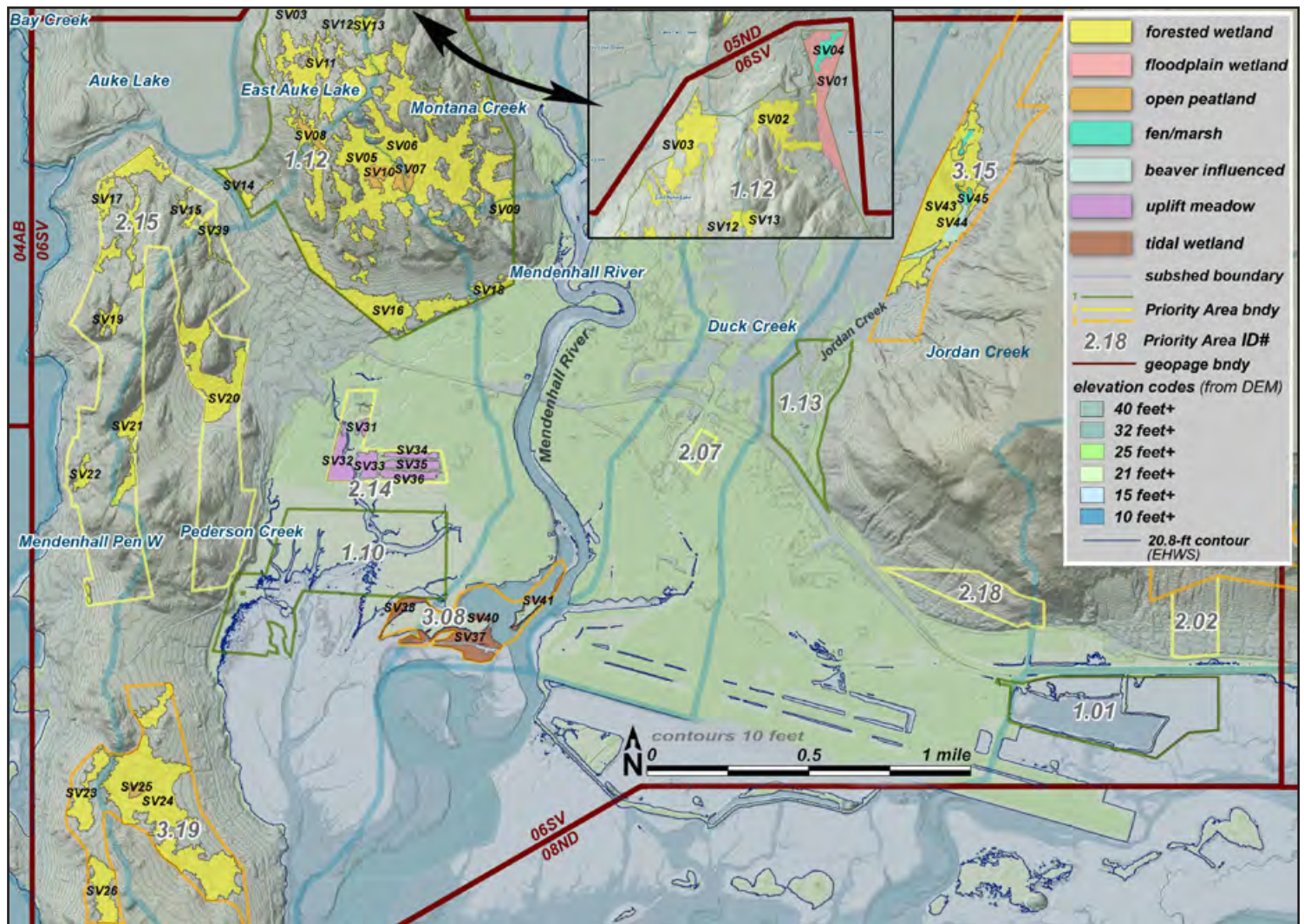
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	8.40	Higher	5.98	Higher
Water Cooling	8.43	Higher	3.16	Moderate
Stream Flow Support	7.73	Higher	2.38	Moderate
Invertebrate Habitat	5.78	Higher	0.46	Lower
Songbird, Raptor, & Mammal Habitat	6.86	Moderate	10.00	Higher
Pollinator Habitat	5.73	Moderate	3.15	Moderate
Native Plant Habitat	4.39	Moderate	0.29	Lower
Amphibian Habitat	2.91	Moderate	2.38	Lower
Nitrate Removal	2.72	Moderate	2.58	Lower
Carbon Sequestration	5.43	Moderate	N.A.	N.A.
Water Storage	1.09	Lower	10.00	Higher
Phosphorus Retention	2.12	Lower	2.12	Lower
Sediment Retention & Stabilization	0.86	Lower	0.37	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.57	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.40	Moderate
Wetland Risk	N.A.	N.A.	6.08	Moderate
Wetland Sensitivity	N.A.	N.A.	4.95	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.69	Moderate
Public Use & Recognition	N.A.	N.A.	1.03	Lower



NV40 • **type:** for. peatland
 • **acres:** 8.4 • **boundary**
criteria: w-u, pa, subsh • **pin:**
 4B2801030140, 50 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.06	Higher	4.07	Moderate
Songbird, Raptor, & Mammal Habitat	7.63	Higher	2.50	Lower
Carbon Sequestration	6.74	Higher	N.A.	N.A.
Nitrate Removal	2.25	Moderate	7.58	Higher
Native Plant Habitat	5.09	Moderate	3.45	Moderate
Water Cooling	4.66	Moderate	3.07	Moderate
Stream Flow Support	4.03	Moderate	1.60	Moderate
Phosphorus Retention	3.61	Moderate	3.61	Moderate
Water Storage	3.51	Moderate	6.11	Moderate
Water Warming	2.94	Moderate	5.29	Moderate
Amphibian Habitat	3.38	Moderate	3.03	Lower
Organic Nutrient Export	7.60	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.38	Lower	4.06	Moderate
Invertebrate Habitat	1.86	Lower	0.63	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.42	Moderate
Wetland Risk	N.A.	N.A.	5.43	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.17	Lower
Public Use & Recognition	N.A.	N.A.	2.29	Lower

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06SV units

CBJ's South Valley (SV) map page contains 12 Priority Areas totaling 1,161 acres. About 770 acres are on City land. The eastern half of PA 1.12 (Hill 560) belongs to the University of Alaska and another large parcel between Glacier Valley school and Thunder Mountain is State land. The rest of the scattered PAs on the South Valley map page are private, totaling 480 acres. We did not survey them.

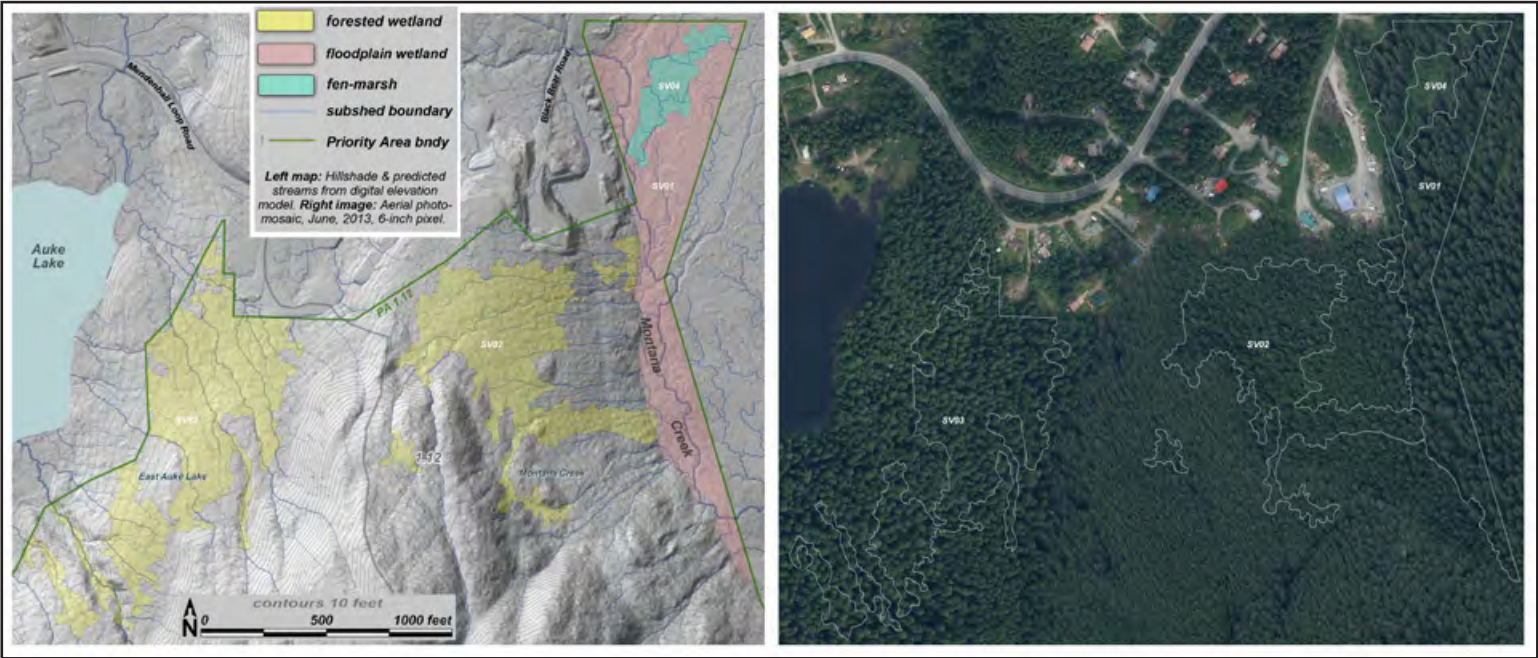
We delineated 8 'subsheds' on the South Valley map page, shown here with blue lines.

We completed 43 Assessment Areas on the SV page, totaling 409 acres, or 35% of the combined PAs. Discounting the unsurveyed private PAs, that percentage increases substantially.

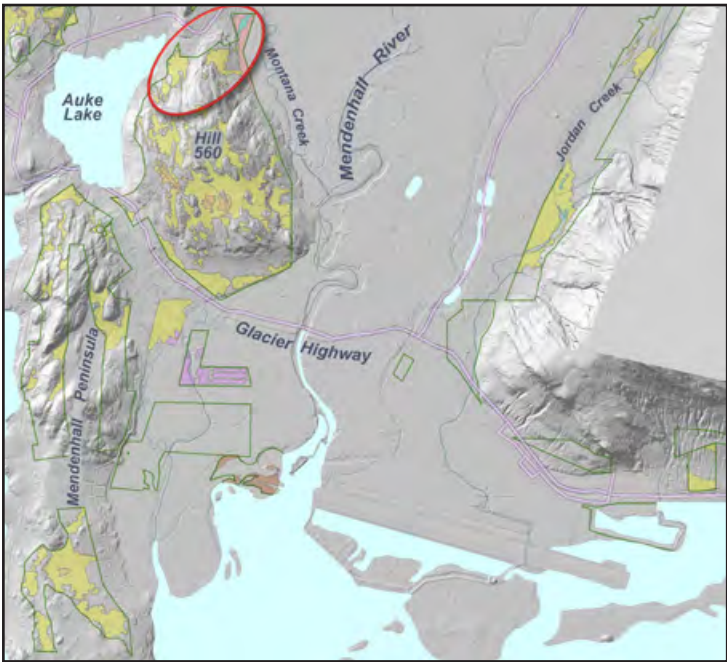


SV01 • **type:** floodplain wetland • **acres:** 10.5 • **boundary criteria:** w-u, type, pa •
pin: 4B2201010010, 21 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.45	Higher	6.45	Higher
Waterbird Feeding Habitat	8.19	Higher	6.67	Higher
Water Storage	6.22	Higher	10.00	Higher
Phosphorus Retention	4.81	Higher	4.81	Higher
Pollinator Habitat	9.83	Higher	4.07	Moderate
Anadromous Fish Habitat	9.72	Higher	5.59	Moderate
Songbird, Raptor, & Mammal Habitat	8.37	Higher	4.14	Moderate
Native Plant Habitat	7.97	Higher	2.31	Moderate
Waterbird Nesting Habitat	6.79	Higher	9.10	Moderate
Invertebrate Habitat	5.36	Higher	5.31	Moderate
Sediment Retention & Stabilization	4.57	Higher	2.53	Moderate
Organic Nutrient Export	8.20	Higher	N.A.	N.A.
Water Cooling	4.82	Moderate	7.71	Higher
Stream Flow Support	3.63	Moderate	8.58	Higher
Nitrate Removal	2.90	Moderate	7.07	Higher
Water Warming	2.56	Moderate	5.70	Higher
Carbon Sequestration	4.66	Moderate	N.A.	N.A.
Amphibian Habitat	0.77	Lower	9.23	Higher
Public Use & Recognition	N.A.	N.A.	7.68	Higher
Wetland Risk	N.A.	N.A.	6.43	Higher
Wetland Stressors	N.A.	N.A.	7.25	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.45	Moderate
Wetland Sensitivity	N.A.	N.A.	3.85	Lower



Unit maps for SV01 02 03 04





SV02 • **type:** forested peatland • **acres:** 9.3 • **boundary criteria:** w-u, type, pa • **pin:** 4B2201010021 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	7.00	Higher	6.06	Higher
Stream Flow Support	7.23	Higher	1.95	Moderate
Pollinator Habitat	7.15	Higher	4.07	Moderate
Water Cooling	6.51	Higher	3.51	Moderate
Songbird, Raptor, & Mammal Habitat	9.27	Higher	1.67	Lower
Organic Nutrient Export	8.37	Higher	N.A.	N.A.
Nitrate Removal	2.15	Moderate	6.82	Higher
Native Plant Habitat	4.15	Moderate	3.75	Moderate
Amphibian Habitat	3.56	Moderate	4.39	Moderate
Water Storage	3.76	Moderate	1.11	Lower
Invertebrate Habitat	3.62	Moderate	0.91	Lower
Carbon Sequestration	4.62	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.24	Lower	4.43	Moderate
Phosphorus Retention	2.08	Lower	2.08	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.77	Moderate
Wetland Risk	N.A.	N.A.	5.64	Moderate
Wetland Sensitivity	N.A.	N.A.	3.01	Lower
Wetland Ecological Condition	N.A.	N.A.	2.79	Lower
Public Use & Recognition	N.A.	N.A.	1.56	Lower

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SV03 • **type:** forested peatland • **acres:** 11.8 • **boundary criteria:** w-u, pa • **pin:** 4B2201010010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	6.16	Higher	6.46	Higher
Stream Flow Support	7.48	Higher	2.02	Moderate
Water Cooling	6.99	Higher	3.51	Moderate
Songbird, Raptor, & Mammal Habitat	9.32	Higher	1.67	Lower
Nitrate Removal	2.20	Moderate	6.82	Higher
Pollinator Habitat	6.58	Moderate	4.07	Moderate
Native Plant Habitat	4.37	Moderate	3.65	Moderate
Amphibian Habitat	3.75	Moderate	4.43	Moderate
Invertebrate Habitat	3.95	Moderate	0.94	Lower
Water Storage	3.76	Moderate	1.11	Lower
Organic Nutrient Export	7.62	Moderate	N.A.	N.A.
Carbon Sequestration	4.84	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.67	Lower	4.43	Moderate
Phosphorus Retention	0.77	Lower	0.77	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.11	Moderate
Wetland Risk	N.A.	N.A.	5.72	Moderate
Public Use & Recognition	N.A.	N.A.	3.21	Moderate
Wetland Sensitivity	N.A.	N.A.	3.01	Lower
Wetland Ecological Condition	N.A.	N.A.	2.18	Lower



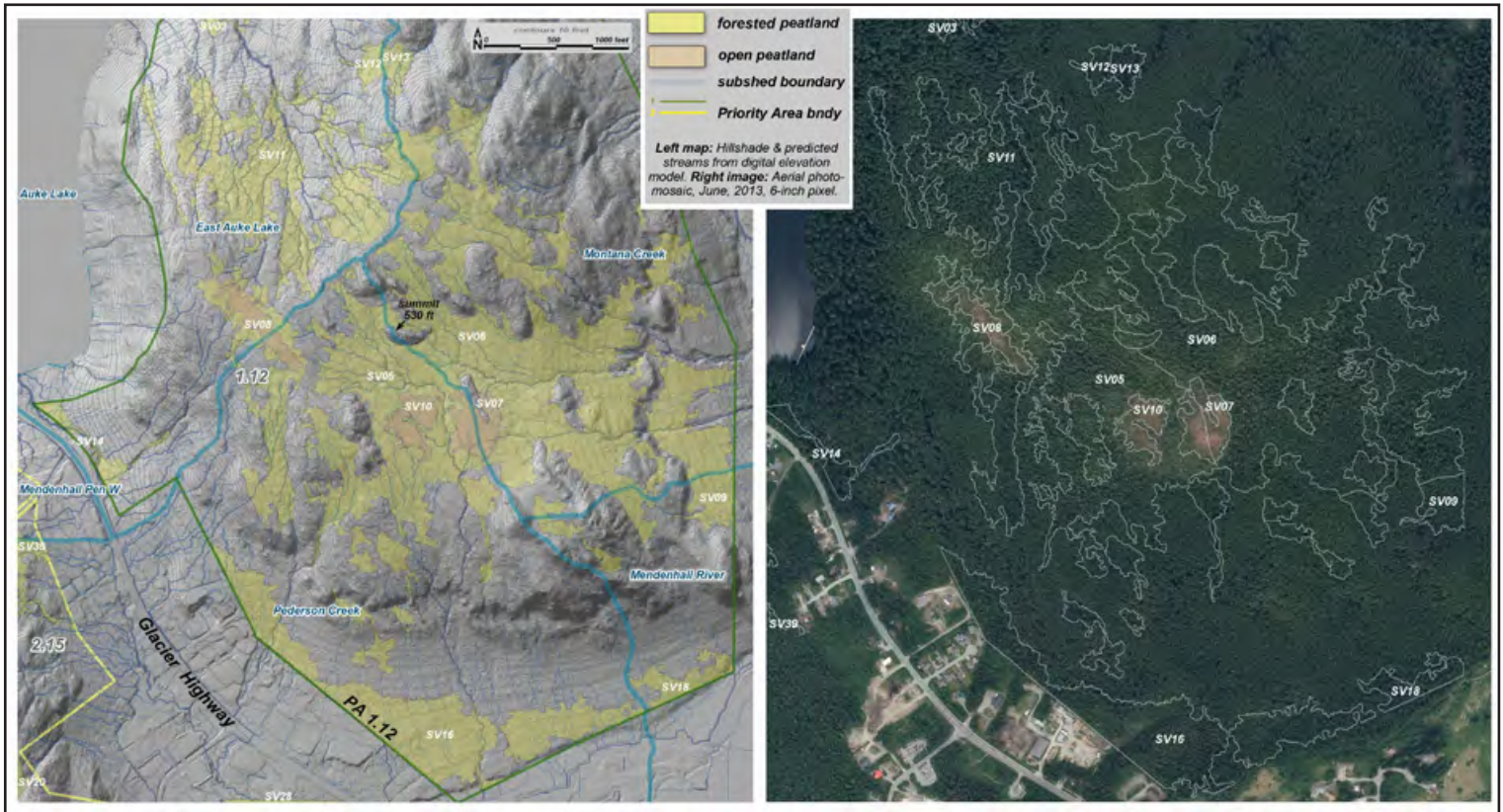
SV04 • **type:** fen/marsh • **acres:** 1.8 • **boundary criteria:** w-u, type, pa • **pin:** 4B2201010021 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	7.41	Higher	6.73	Higher
Waterbird Feeding Habitat	6.64	Higher	6.67	Higher
Waterbird Nesting Habitat	5.95	Higher	10.00	Higher
Water Storage	5.56	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	7.91	Higher	4.44	Moderate
Amphibian Habitat	5.07	Moderate	7.79	Higher
Nitrate Removal	2.56	Moderate	5.81	Higher
Pollinator Habitat	6.34	Moderate	4.47	Moderate
Anadromous Fish Habitat	5.29	Moderate	5.83	Moderate
Native Plant Habitat	5.12	Moderate	2.95	Moderate
Water Cooling	4.98	Moderate	2.14	Moderate
Sediment Retention & Stabilization	3.67	Moderate	2.09	Moderate
Phosphorus Retention	3.64	Moderate	3.64	Moderate
Water Warming	2.44	Moderate	2.01	Lower
Organic Nutrient Export	6.81	Moderate	N.A.	N.A.
Carbon Sequestration	4.85	Moderate	N.A.	N.A.
Stream Flow Support	3.05	Lower	5.96	Higher
Invertebrate Habitat	1.86	Lower	4.53	Moderate
Public Use & Recognition	N.A.	N.A.	7.48	Higher
Wetland Stressors	N.A.	N.A.	7.15	Moderate
Wetland Risk	N.A.	N.A.	5.08	Moderate
Wetland Sensitivity	N.A.	N.A.	3.76	Lower
Wetland Ecological Condition	N.A.	N.A.	0.63	Lower

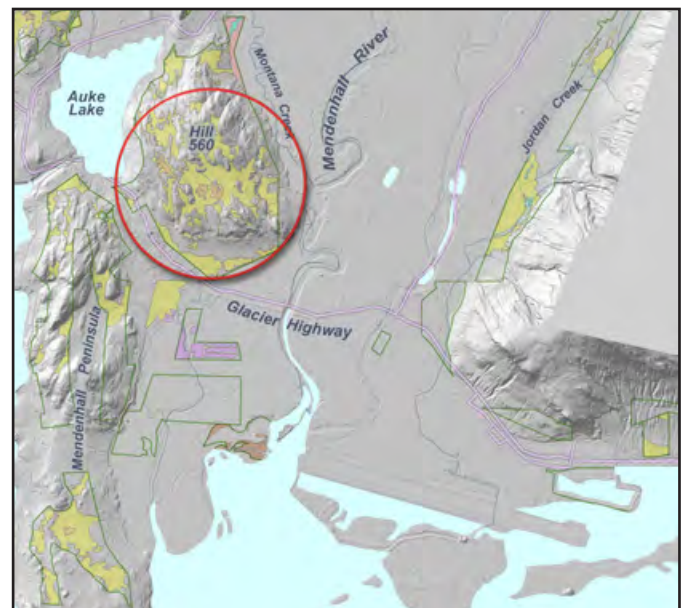


SV05 • **type:** forested peatland • **acres:** 35.9 • **boundary criteria:** w-u, type, subsh • **pin:** 4B2201010100 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.97	Higher	3.05	Moderate
Native Plant Habitat	5.54	Higher	4.11	Moderate
Songbird, Raptor, & Mammal Habitat	9.20	Higher	1.11	Lower
Invertebrate Habitat	5.90	Higher	0.77	Lower
Organic Nutrient Export	8.60	Higher	N.A.	N.A.
Carbon Sequestration	6.46	Higher	N.A.	N.A.
Water Cooling	5.08	Moderate	2.63	Moderate
Stream Flow Support	4.29	Moderate	2.41	Moderate
Water Warming	3.36	Moderate	5.16	Moderate
Phosphorus Retention	2.81	Moderate	2.81	Moderate
Water Storage	4.03	Moderate	1.11	Lower
Amphibian Habitat	2.39	Lower	4.33	Moderate
Nitrate Removal	1.85	Lower	3.54	Moderate
Sediment Retention & Stabilization	1.89	Lower	0.38	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	4.11	Lower
Wetland Ecological Condition	N.A.	N.A.	3.02	Lower
Wetland Risk	N.A.	N.A.	2.92	Lower
Public Use & Recognition	N.A.	N.A.	1.68	Lower



Unit maps for SV05 06 07 08 09 10
11 12 13 14 16 18





SV06 • **type:** forested peatland
 • **acres:** 58.2 • **boundary criteria:** w-u, type, subsh, pa • **pin:** 4B2201010021 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	3.93	Higher	3.93	Higher
Pollinator Habitat	6.83	Higher	3.05	Moderate
Songbird, Raptor, & Mammal Habitat	8.16	Higher	1.11	Lower
Water Cooling	5.79	Higher	1.26	Lower
Water Storage	4.13	Moderate	10.00	Higher
Nitrate Removal	2.87	Moderate	3.28	Moderate
Native Plant Habitat	4.81	Moderate	1.11	Lower
Invertebrate Habitat	4.70	Moderate	1.28	Lower
Waterbird Nesting Habitat	4.51	Moderate	0.00	Lower
Water Warming	3.31	Moderate	2.54	Lower
Amphibian Habitat	2.80	Moderate	3.47	Lower
Organic Nutrient Export	7.53	Moderate	N.A.	N.A.
Carbon Sequestration	5.78	Moderate	N.A.	N.A.
Stream Flow Support	2.39	Lower	2.17	Moderate
Sediment Retention & Stabilization	2.03	Lower	0.24	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	3.44	Lower
Public Use & Recognition	N.A.	N.A.	2.38	Lower
Wetland Sensitivity	N.A.	N.A.	2.20	Lower
Wetland Ecological Condition	N.A.	N.A.	1.65	Lower
Wetland Risk	N.A.	N.A.	1.59	Lower

SV07 • **type:** open peatland
 • **acres:** 1.3 • **boundary**
criteria: w-u, type, subsh • **pin:**
 4B2201010100 • no known or
 probable anadromous fish



Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Storage	5.84	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	9.08	Higher	3.33	Moderate
Pollinator Habitat	8.41	Higher	3.36	Moderate
Waterbird Nesting Habitat	5.35	Moderate	10.00	Higher
Waterbird Feeding Habitat	5.10	Moderate	6.67	Higher
Water Warming	3.05	Moderate	5.71	Higher
Stream Flow Support	5.80	Moderate	1.69	Moderate
Native Plant Habitat	4.38	Moderate	3.96	Moderate
Water Cooling	3.68	Moderate	3.16	Moderate
Phosphorus Retention	2.75	Moderate	2.75	Moderate
Nitrate Removal	2.21	Moderate	3.28	Moderate
Sediment Retention & Stabilization	3.14	Moderate	0.37	Lower
Carbon Sequestration	5.74	Moderate	N.A.	N.A.
Amphibian Habitat	0.78	Lower	7.71	Higher
Invertebrate Habitat	2.31	Lower	1.99	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.78	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	4.16	Moderate
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Wetland Stressors	N.A.	N.A.	3.73	Lower
Wetland Risk	N.A.	N.A.	3.02	Lower
Public Use & Recognition	N.A.	N.A.	1.47	Lower

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SV08 • **type:** open peatland • **acres:** 2.0 • **boundary criteria:** w-u, type, subsh • **pin:** 4B2201010010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.67	Higher	3.33	Moderate
Nitrate Removal	3.32	Higher	3.28	Moderate
Invertebrate Habitat	6.60	Higher	1.70	Lower
Water Warming	6.30	Higher	0.00	Lower
Carbon Sequestration	6.28	Higher	N.A.	N.A.
Waterbird Feeding Habitat	4.93	Moderate	6.67	Higher
Waterbird Nesting Habitat	4.52	Moderate	10.00	Higher
Pollinator Habitat	6.10	Moderate	3.36	Moderate
Native Plant Habitat	5.00	Moderate	3.06	Moderate
Phosphorus Retention	3.50	Moderate	3.50	Moderate
Water Storage	4.79	Moderate	1.67	Lower
Water Cooling	3.68	Moderate	0.00	Lower
Amphibian Habitat	1.50	Lower	6.42	Higher
Sediment Retention & Stabilization	2.16	Lower	1.93	Lower
Stream Flow Support	0.92	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.96	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	4.33	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	3.73	Lower
Wetland Risk	N.A.	N.A.	3.10	Lower
Public Use & Recognition	N.A.	N.A.	1.59	Lower



SV09 • **type:** for. peatland
 • **acres:** 5.0 • **boundary**
criteria: w-u, subsh, pa • **pin:**
 4B2201010080 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.62	Higher	3.05	Moderate
Nitrate Removal	3.70	Higher	3.54	Moderate
Water Cooling	8.43	Higher	0.53	Lower
Water Warming	8.40	Higher	1.00	Lower
Invertebrate Habitat	6.96	Higher	0.45	Lower
Carbon Sequestration	7.06	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	6.07	Moderate	1.11	Lower
Amphibian Habitat	4.03	Moderate	1.72	Lower
Native Plant Habitat	3.93	Moderate	0.50	Lower
Sediment Retention & Stabilization	3.30	Moderate	0.28	Lower
Water Storage	1.09	Lower	10.00	Higher
Stream Flow Support	2.24	Lower	2.62	Moderate
Phosphorus Retention	2.07	Lower	2.07	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.42	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	3.22	Lower
Wetland Ecological Condition	N.A.	N.A.	3.03	Lower
Wetland Risk	N.A.	N.A.	1.99	Lower
Public Use & Recognition	N.A.	N.A.	0.87	Lower

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SV10 • **type:** open peatland • **acres:** 3.6 • **boundary criteria:** w-u, type, subsh • **pin:** 4B2201010100
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.68	Higher	4.68	Higher
Songbird, Raptor, & Mammal Habitat	9.28	Higher	4.14	Moderate
Stream Flow Support	6.05	Higher	2.48	Moderate
Water Cooling	5.56	Higher	3.16	Moderate
Invertebrate Habitat	6.24	Higher	2.30	Lower
Water Storage	5.84	Higher	0.00	Lower
Carbon Sequestration	6.61	Higher	N.A.	N.A.
Waterbird Feeding Habitat	5.18	Moderate	6.67	Higher
Amphibian Habitat	3.03	Moderate	7.93	Higher
Water Warming	2.52	Moderate	6.37	Higher
Pollinator Habitat	6.63	Moderate	4.07	Moderate
Waterbird Nesting Habitat	5.49	Moderate	9.10	Moderate
Native Plant Habitat	4.00	Moderate	3.65	Moderate
Nitrate Removal	3.00	Moderate	3.79	Moderate
Sediment Retention & Stabilization	3.39	Moderate	0.54	Lower
Organic Nutrient Export	6.67	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.80	Moderate
Wetland Risk	N.A.	N.A.	6.30	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.20	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.50	Lower



SV11 • **type:** forested peatland • **acres:** 26.9 • **boundary criteria:** w-u, type, subsh • **pin:** 4B2201010100 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.82	Higher	3.05	Moderate
Stream Flow Support	7.03	Higher	1.89	Moderate
Water Cooling	5.56	Higher	3.51	Moderate
Organic Nutrient Export	8.66	Higher	N.A.	N.A.
Water Warming	4.62	Moderate	6.29	Higher
Nitrate Removal	2.46	Moderate	6.82	Higher
Native Plant Habitat	4.89	Moderate	3.15	Moderate
Phosphorus Retention	2.82	Moderate	2.82	Moderate
Songbird, Raptor, & Mammal Habitat	6.76	Moderate	1.11	Lower
Invertebrate Habitat	3.31	Moderate	0.39	Lower
Carbon Sequestration	5.27	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.10	Lower	3.78	Moderate
Water Storage	2.75	Lower	1.11	Lower
Amphibian Habitat	2.43	Lower	2.30	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	3.42	Lower
Public Use & Recognition	N.A.	N.A.	2.38	Lower
Wetland Ecological Condition	N.A.	N.A.	2.27	Lower
Wetland Risk	N.A.	N.A.	1.86	Lower

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SV12 • **type:** for. peatland •
acres: 1.1 • **boundary criteria:**
 w-u, subsh • **pin:** 4B2201010010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	7.77	Higher	N.A.	N.A.
Nitrate Removal	2.38	Moderate	3.54	Moderate
Songbird, Raptor, & Mammal Habitat	5.33	Moderate	1.11	Lower
Invertebrate Habitat	4.64	Moderate	0.16	Lower
Water Cooling	4.60	Moderate	1.26	Lower
Native Plant Habitat	3.93	Moderate	0.14	Lower
Organic Nutrient Export	6.00	Moderate	N.A.	N.A.
Water Storage	1.06	Lower	10.00	Higher
Pollinator Habitat	3.23	Lower	3.05	Moderate
Stream Flow Support	2.32	Lower	2.16	Moderate
Amphibian Habitat	2.48	Lower	1.11	Lower
Phosphorus Retention	2.22	Lower	2.22	Lower
Sediment Retention & Stabilization	1.36	Lower	0.28	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	3.44	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	2.38	Lower
Wetland Ecological Condition	N.A.	N.A.	1.75	Lower
Wetland Risk	N.A.	N.A.	1.64	Lower



SV13 • **type:** forested peat-land • **acres:** 1.3 • **bound-ary criteria:** w-u, subsh • **pin:** 4B2201010010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.41	Higher	3.05	Moderate
Songbird, Raptor, & Mammal Habitat	7.94	Higher	1.11	Lower
Water Storage	4.03	Moderate	10.00	Higher
Water Cooling	4.98	Moderate	3.16	Moderate
Stream Flow Support	4.59	Moderate	1.78	Moderate
Water Warming	2.44	Moderate	5.52	Moderate
Waterbird Nesting Habitat	3.87	Moderate	0.00	Lower
Native Plant Habitat	3.46	Moderate	1.19	Lower
Nitrate Removal	1.26	Lower	3.54	Moderate
Invertebrate Habitat	2.80	Lower	1.09	Lower
Amphibian Habitat	2.22	Lower	3.28	Lower
Sediment Retention & Stabilization	1.86	Lower	0.43	Lower
Phosphorus Retention	1.76	Lower	1.76	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.33	Lower	N.A.	N.A.
Carbon Sequestration	3.54	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Stressors	N.A.	N.A.	3.22	Lower
Wetland Ecological Condition	N.A.	N.A.	1.32	Lower
Wetland Risk	N.A.	N.A.	1.22	Lower
Public Use & Recognition	N.A.	N.A.	0.64	Lower

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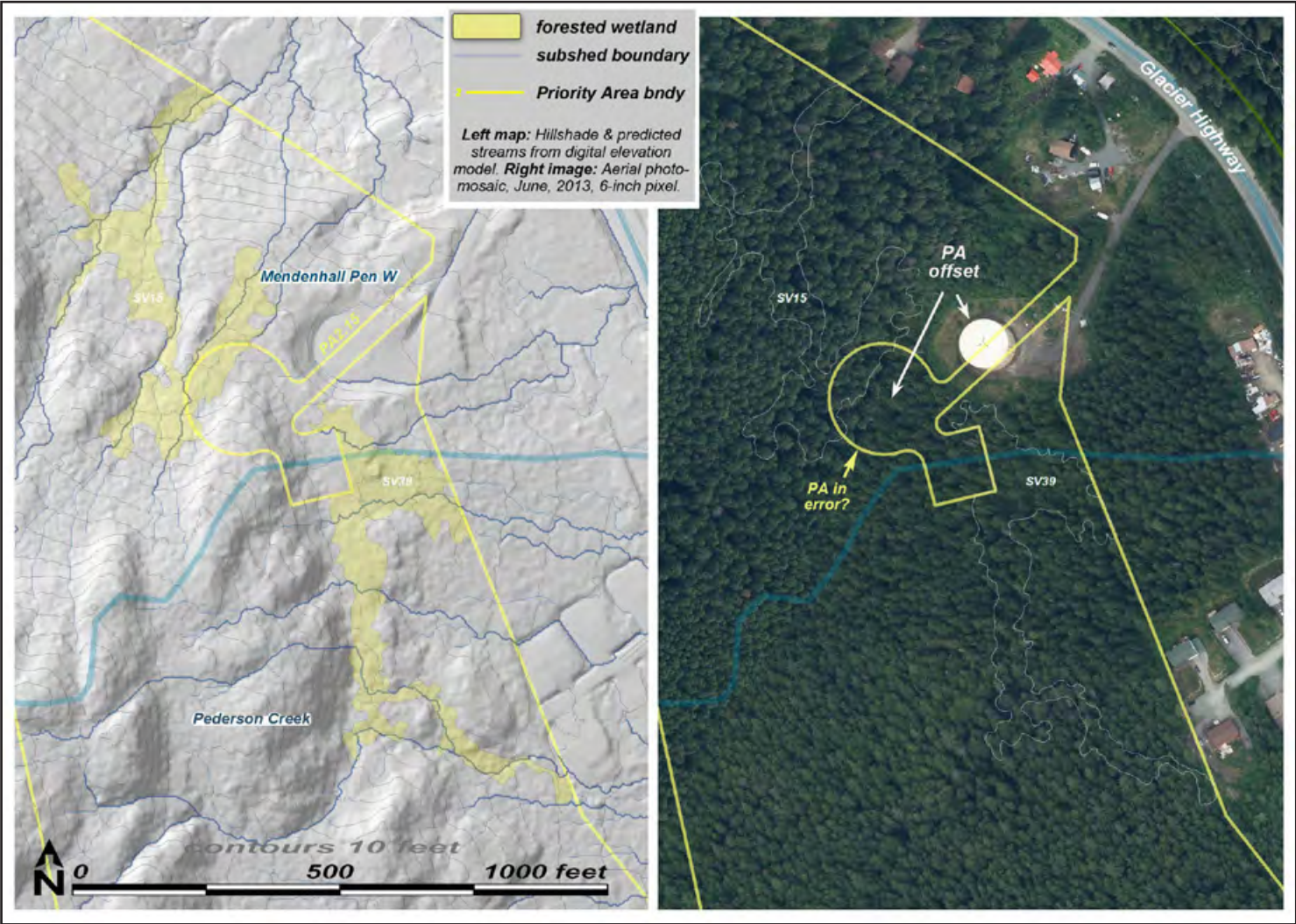
SV14 • **type:** for. peatland •
acres: 2.1 • **boundary criteria:**
 w-u, pa • **pin:** 4B2201010010 •
 no known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	7.10	Higher	N.A.	N.A.
Pollinator Habitat	5.24	Moderate	4.07	Moderate
Native Plant Habitat	4.28	Moderate	2.31	Moderate
Phosphorus Retention	3.57	Moderate	3.57	Moderate
Nitrate Removal	3.02	Moderate	4.14	Moderate
Songbird, Raptor, & Mammal Habitat	5.89	Moderate	1.67	Lower
Invertebrate Habitat	4.99	Moderate	0.42	Lower
Water Cooling	4.60	Moderate	1.05	Lower
Amphibian Habitat	4.01	Moderate	1.58	Lower
Organic Nutrient Export	6.42	Moderate	N.A.	N.A.
Stream Flow Support	1.82	Lower	2.22	Moderate
Sediment Retention & Stabilization	2.10	Lower	0.75	Lower
Water Storage	1.03	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	8.13	Higher
Wetland Risk	N.A.	N.A.	6.70	Higher
Public Use & Recognition	N.A.	N.A.	6.03	Higher
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Ecological Condition	N.A.	N.A.	1.95	Lower

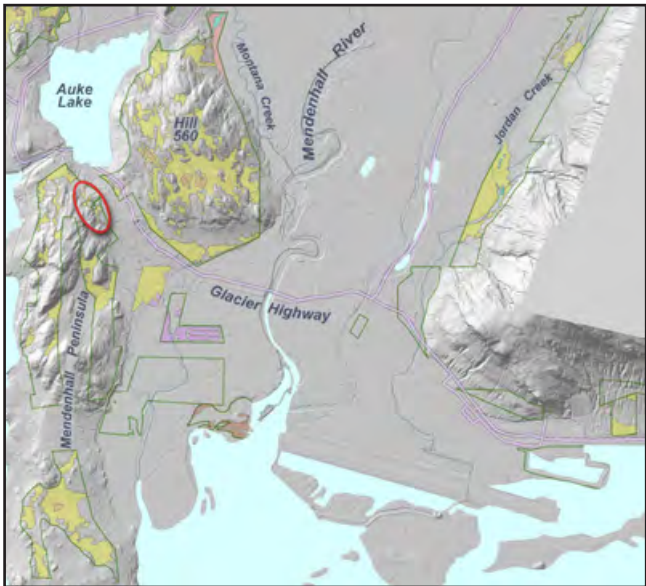


SV15 • **type:** for. peatland •
acres: 1.7 • **boundary criteria:**
w-u, pa • **pin:** 4B2301010170 •
no known or probable anadromous

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	7.79	Higher	3.95	Moderate
Stream Flow Support	7.78	Higher	2.03	Moderate
Organic Nutrient Export	8.78	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	7.48	Higher
Nitrate Removal	2.72	Moderate	6.57	Higher
Pollinator Habitat	4.59	Moderate	4.07	Moderate
Songbird, Raptor, & Mammal Habitat	6.53	Moderate	2.50	Lower
Invertebrate Habitat	4.02	Moderate	0.40	Lower
Amphibian Habitat	2.89	Moderate	2.11	Lower
Carbon Sequestration	5.02	Moderate	N.A.	N.A.
Native Plant Habitat	3.10	Lower	2.31	Moderate
Sediment Retention & Stabilization	2.23	Lower	3.71	Moderate
Water Storage	2.64	Lower	1.11	Lower
Phosphorus Retention	2.43	Lower	2.43	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	7.19	Moderate
Wetland Risk	N.A.	N.A.	5.41	Moderate
Public Use & Recognition	N.A.	N.A.	3.94	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.30	Lower



Unit maps for SV15 39





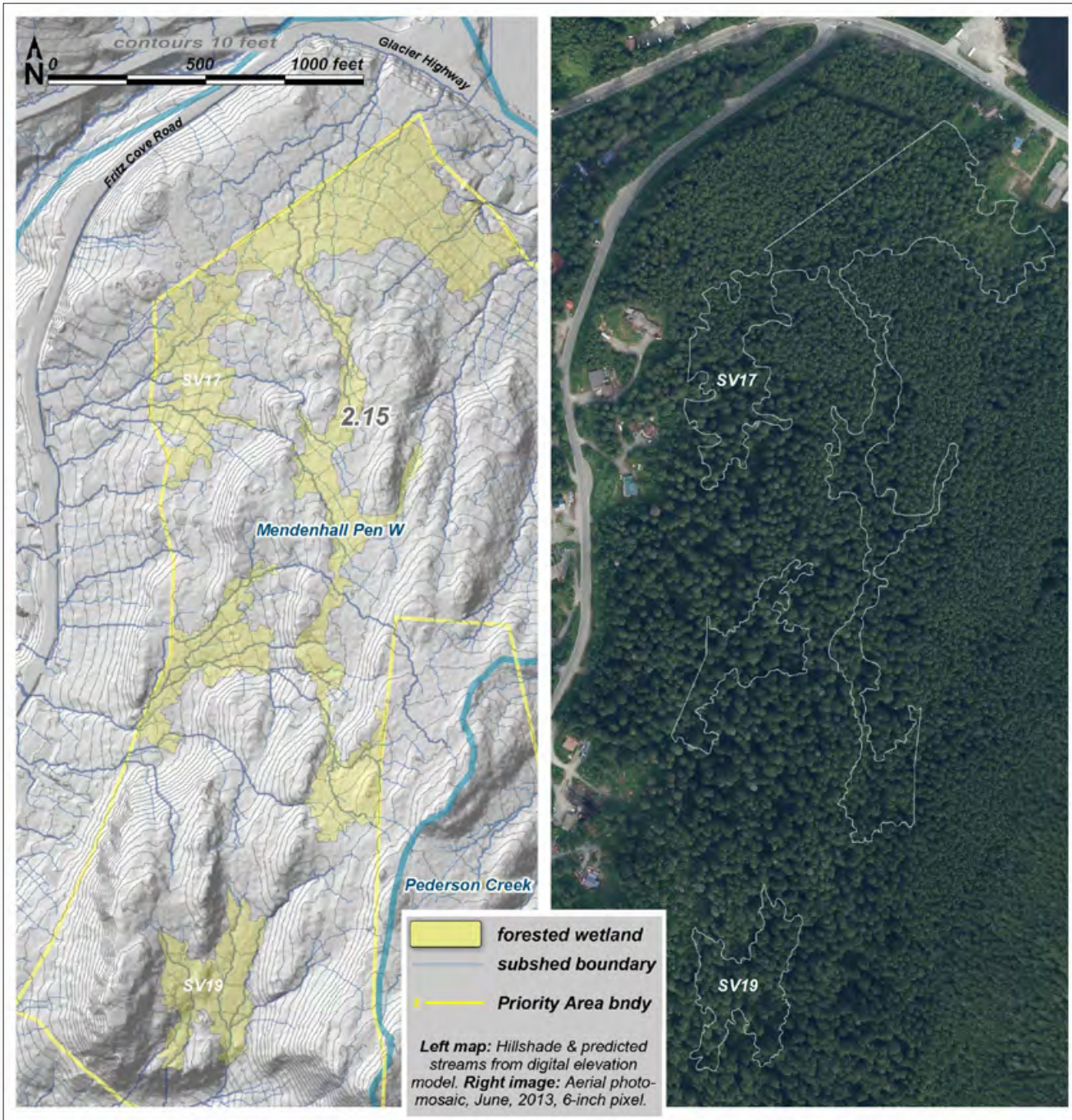
SV16 • **type:** for. peatland
 • **acres:** 20.4 • **bound-**
ary criteria: w-u, pa • **pin:**
 4B2201010100, 80 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.06	Higher	10.00	Higher
Pollinator Habitat	9.21	Higher	4.07	Moderate
Stream Flow Support	6.72	Higher	1.78	Moderate
Water Cooling	5.56	Higher	3.07	Moderate
Carbon Sequestration	6.71	Higher	N.A.	N.A.
Nitrate Removal	2.26	Moderate	6.31	Higher
Water Warming	4.62	Moderate	5.34	Moderate
Native Plant Habitat	4.36	Moderate	2.31	Moderate
Phosphorus Retention	3.14	Moderate	3.14	Moderate
Amphibian Habitat	3.77	Moderate	3.38	Lower
Water Storage	3.44	Moderate	1.11	Lower
Waterbird Nesting Habitat	3.41	Moderate	0.00	Lower
Organic Nutrient Export	7.46	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.19	Lower	3.61	Moderate
Invertebrate Habitat	2.78	Lower	1.21	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.56	Moderate
Wetland Risk	N.A.	N.A.	5.12	Moderate
Public Use & Recognition	N.A.	N.A.	2.81	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.12	Lower

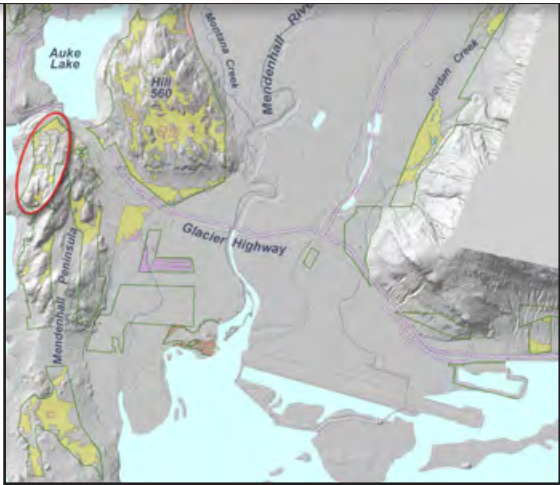


SV17 • **type:** forested peatland • **acres:** 15.2 • **boundary criteria:** w-u, pa • **pin:** 4B2301010170 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	7.23	Higher	1.88	Moderate
Pollinator Habitat	6.97	Higher	4.07	Moderate
Organic Nutrient Export	8.25	Higher	N.A.	N.A.
Water Warming	4.62	Moderate	7.05	Higher
Nitrate Removal	3.05	Moderate	6.57	Higher
Water Cooling	5.17	Moderate	3.51	Moderate
Native Plant Habitat	4.01	Moderate	2.31	Moderate
Songbird, Raptor, & Mammal Habitat	5.94	Moderate	2.50	Lower
Invertebrate Habitat	3.25	Moderate	0.26	Lower
Water Storage	2.95	Moderate	1.11	Lower
Carbon Sequestration	4.65	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.27	Lower	3.81	Moderate
Amphibian Habitat	2.49	Lower	1.62	Lower
Phosphorus Retention	2.01	Lower	2.01	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Risk	N.A.	N.A.	6.82	Higher
Public Use & Recognition	N.A.	N.A.	5.45	Higher
Wetland Stressors	N.A.	N.A.	7.26	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.29	Moderate



Unit maps for SV17 19

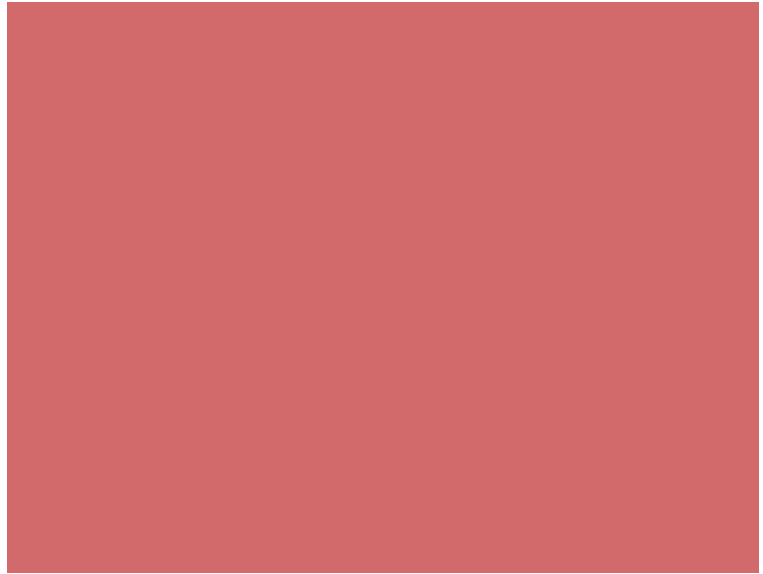


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SV18 • **type:** for. peatland •
acres: 2.5 • **boundary criteria:**
 w-u, pa • **pin:** 4B2201010100,
 80 • no known or probable anad-
 romous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.01	Higher	10.00	Higher
Pollinator Habitat	8.20	Higher	4.07	Moderate
Carbon Sequestration	7.02	Higher	N.A.	N.A.
Native Plant Habitat	4.33	Moderate	2.31	Moderate
Water Warming	2.94	Moderate	4.24	Moderate
Water Cooling	4.66	Moderate	1.40	Lower
Amphibian Habitat	3.52	Moderate	3.34	Lower
Organic Nutrient Export	6.92	Moderate	N.A.	N.A.
Nitrate Removal	1.01	Lower	6.57	Higher
Stream Flow Support	2.27	Lower	1.68	Moderate
Sediment Retention & Stabilization	0.39	Lower	3.67	Moderate
Water Storage	2.57	Lower	0.56	Lower
Invertebrate Habitat	2.28	Lower	0.71	Lower
Phosphorus Retention	2.09	Lower	2.09	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Stressors	N.A.	N.A.	6.56	Moderate
Wetland Risk	N.A.	N.A.	5.61	Moderate
Public Use & Recognition	N.A.	N.A.	2.70	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.23	Lower



SV19 • **type:** forested peatland • **acres:** 2.5 • **boundary criteria:** w-u • **pin:** 4B2301010170 • **no** known or probable anadromous fish

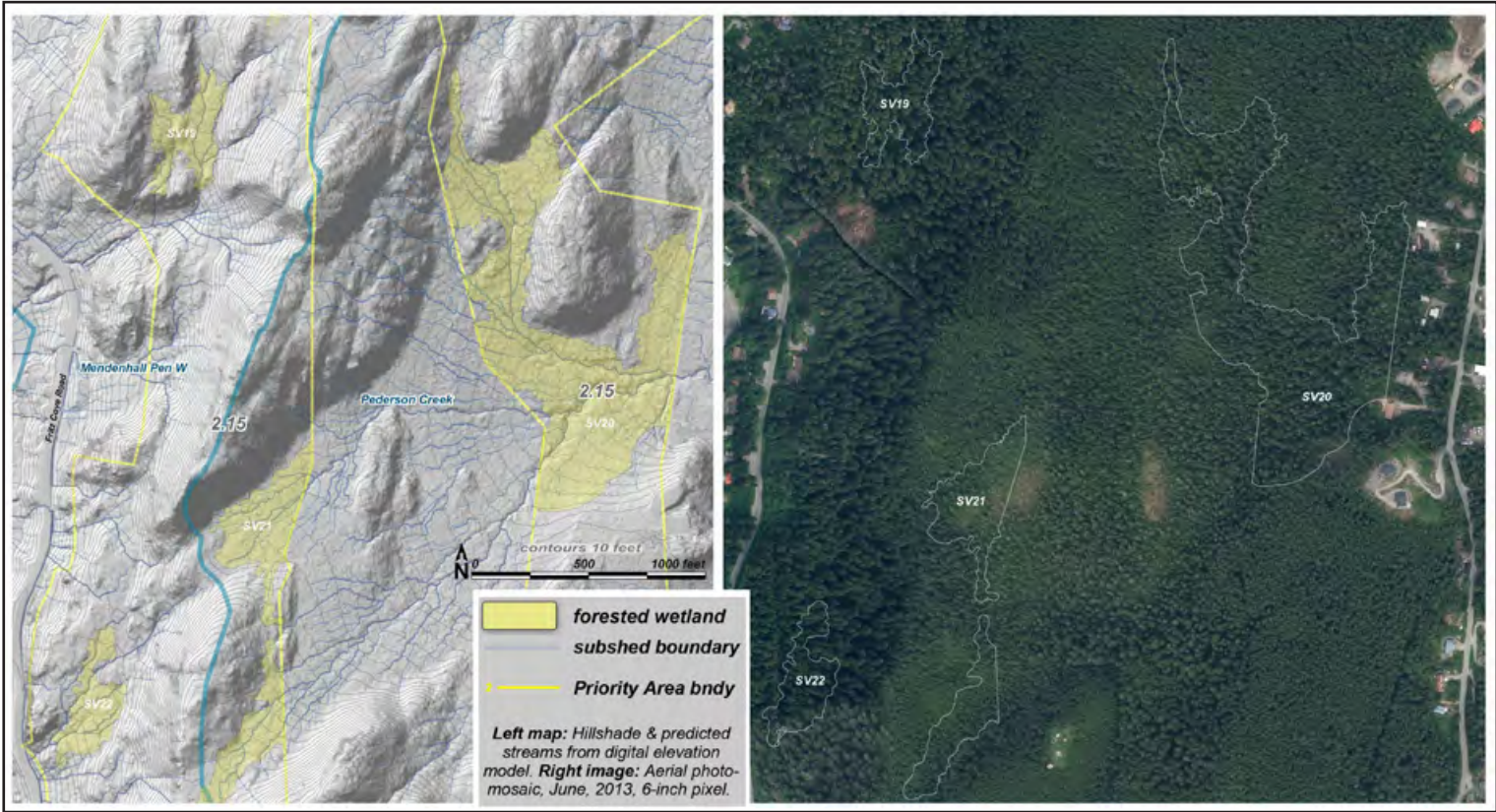
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.52	Higher	1.80	Moderate
Water Cooling	5.56	Higher	3.07	Moderate
Organic Nutrient Export	8.22	Higher	N.A.	N.A.
Nitrate Removal	2.04	Moderate	6.57	Higher
Pollinator Habitat	5.31	Moderate	4.07	Moderate
Water Warming	4.62	Moderate	5.15	Moderate
Phosphorus Retention	2.80	Moderate	2.80	Moderate
Songbird, Raptor, & Mammal Habitat	6.63	Moderate	2.50	Lower
Carbon Sequestration	5.31	Moderate	N.A.	N.A.
Native Plant Habitat	2.60	Lower	2.31	Moderate
Sediment Retention & Stabilization	0.56	Lower	3.71	Moderate
Invertebrate Habitat	2.87	Lower	0.35	Lower
Amphibian Habitat	2.27	Lower	2.19	Lower
Water Storage	1.97	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.66	Moderate
Wetland Risk	N.A.	N.A.	5.34	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.39	Lower
Public Use & Recognition	N.A.	N.A.	0.99	Lower

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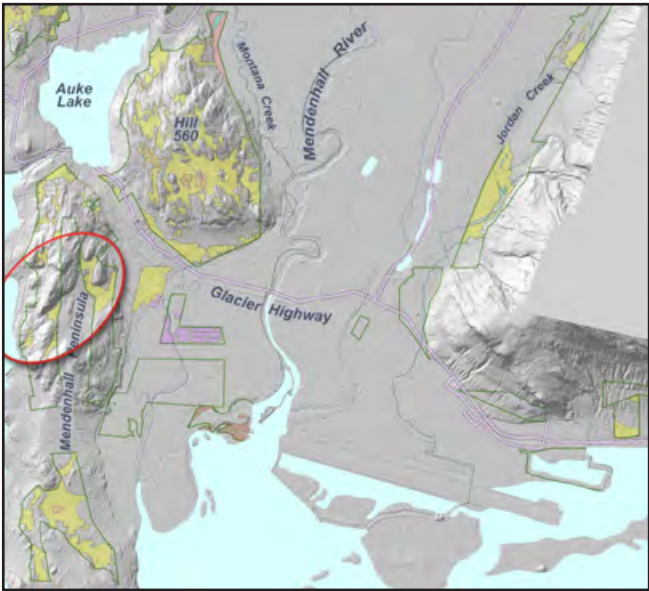


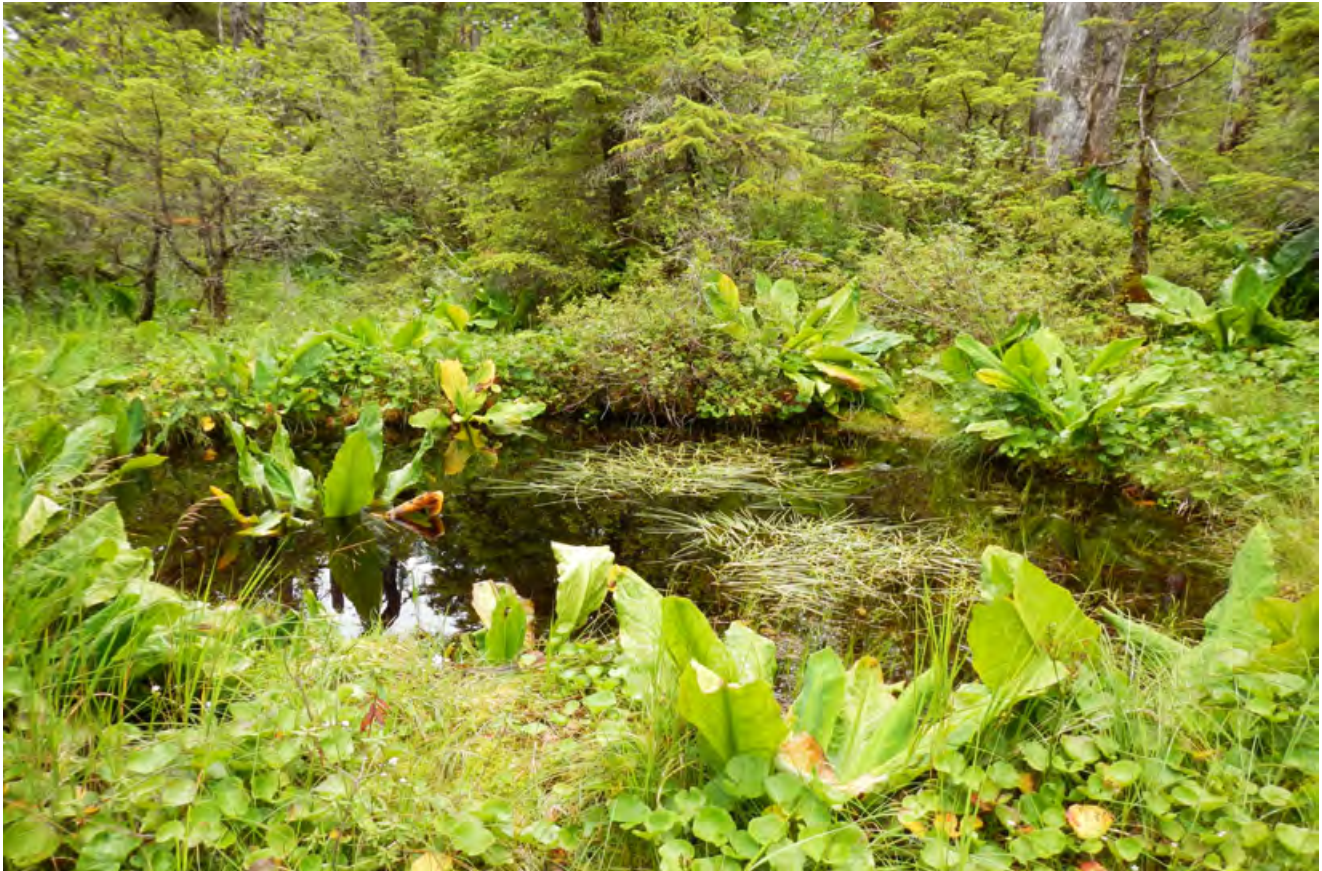
SV20 • **type:** for. peatland
 • **acres:** 17.6 • **bound-ary criteria:** w-u, pa • **pin:** 4B2301010170 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	6.36	Higher	3.07	Moderate
Songbird, Raptor, & Mammal Habitat	7.80	Higher	2.50	Lower
Invertebrate Habitat	6.05	Higher	1.01	Lower
Organic Nutrient Export	8.61	Higher	N.A.	N.A.
Carbon Sequestration	6.40	Higher	N.A.	N.A.
Nitrate Removal	2.28	Moderate	6.82	Higher
Pollinator Habitat	6.69	Moderate	4.07	Moderate
Native Plant Habitat	4.76	Moderate	3.22	Moderate
Stream Flow Support	4.29	Moderate	2.44	Moderate
Phosphorus Retention	3.68	Moderate	3.68	Moderate
Water Warming	2.52	Moderate	5.16	Moderate
Sediment Retention & Stabilization	2.40	Moderate	4.42	Moderate
Water Storage	4.79	Moderate	1.11	Lower
Waterbird Nesting Habitat	3.37	Moderate	0.00	Lower
Amphibian Habitat	2.38	Lower	3.17	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.62	Higher
Wetland Stressors	N.A.	N.A.	6.95	Moderate
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.58	Moderate
Public Use & Recognition	N.A.	N.A.	2.10	Lower



Unit maps for SV19 20 21 22





SV21 • **type:** for. peatland •
acres: 5.7 • **boundary criteria:**
 w-u, pa • **pin:** 4B2301010170 •
 no known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.26	Higher	4.07	Moderate
Native Plant Habitat	5.84	Higher	2.31	Moderate
Songbird, Raptor, & Mammal Habitat	8.27	Higher	2.50	Lower
Water Cooling	6.26	Higher	1.23	Lower
Organic Nutrient Export	8.15	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	3.58	Moderate
Stream Flow Support	3.49	Moderate	1.91	Moderate
Water Storage	3.82	Moderate	1.11	Lower
Invertebrate Habitat	3.42	Moderate	0.58	Lower
Carbon Sequestration	5.92	Moderate	N.A.	N.A.
Nitrate Removal	1.84	Lower	6.82	Higher
Sediment Retention & Stabilization	2.18	Lower	3.93	Moderate
Phosphorus Retention	2.21	Lower	2.21	Lower
Amphibian Habitat	2.02	Lower	3.56	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.79	Moderate
Wetland Risk	N.A.	N.A.	6.30	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.23	Moderate
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Public Use & Recognition	N.A.	N.A.	1.59	Lower



SV22 • **type:** forested peatland
 • **acres:** 2.2 • **boundary criteria:** w-u • **pin:** 4B2301010170
 • no known or probable anadromous fish

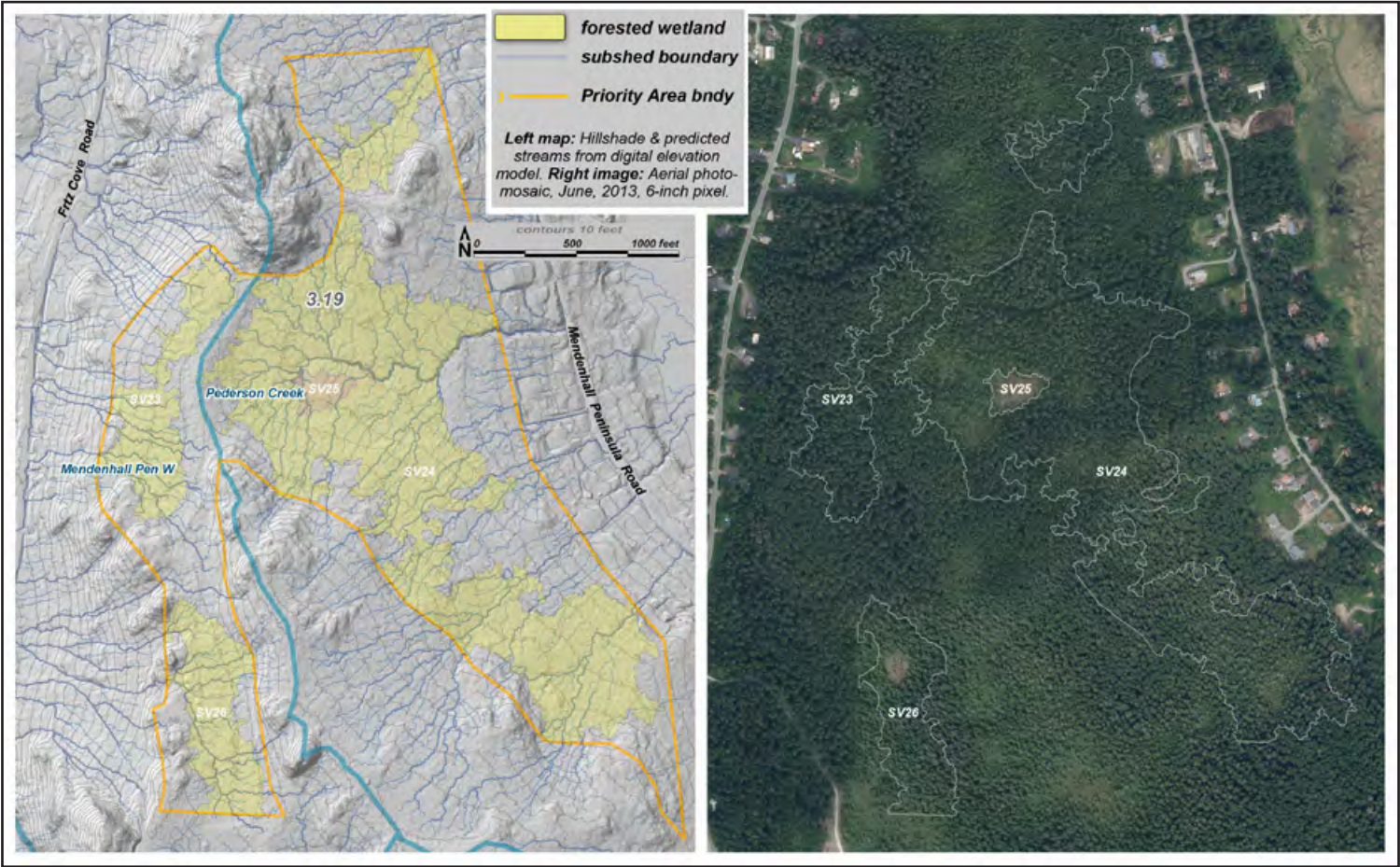
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.04	Higher	4.07	Moderate
Songbird, Raptor, & Mammal Habitat	8.18	Higher	2.50	Lower
Carbon Sequestration	6.50	Higher	N.A.	N.A.
Water Warming	2.94	Moderate	5.90	Higher
Native Plant Habitat	4.63	Moderate	2.31	Moderate
Water Cooling	4.28	Moderate	3.07	Moderate
Stream Flow Support	4.03	Moderate	1.80	Moderate
Water Storage	4.11	Moderate	1.11	Lower
Organic Nutrient Export	7.50	Moderate	N.A.	N.A.
Nitrate Removal	1.58	Lower	6.82	Higher
Sediment Retention & Stabilization	1.61	Lower	3.93	Moderate
Invertebrate Habitat	2.89	Lower	0.60	Lower
Amphibian Habitat	2.31	Lower	3.48	Lower
Phosphorus Retention	0.44	Lower	0.44	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.04	Moderate
Wetland Risk	N.A.	N.A.	6.36	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.79	Moderate
Wetland Sensitivity	N.A.	N.A.	4.44	Lower
Public Use & Recognition	N.A.	N.A.	1.28	Lower

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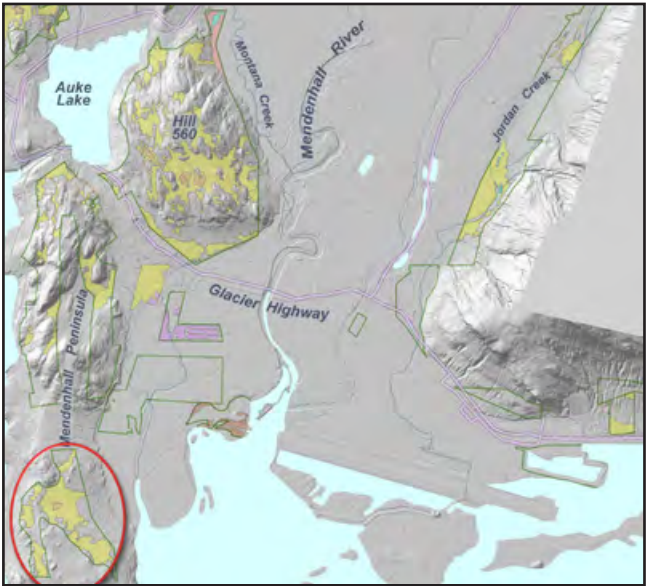


SV23 • **type:** forested peatland • **acres:** 7.7 • **boundary criteria:** w-u, pa, subsh • **pin:** 4B1901070010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.12	Higher	4.12	Higher
Pollinator Habitat	7.75	Higher	3.05	Moderate
Songbird, Raptor, & Mammal Habitat	8.91	Higher	2.22	Lower
Invertebrate Habitat	6.12	Higher	1.30	Lower
Organic Nutrient Export	9.06	Higher	N.A.	N.A.
Carbon Sequestration	6.49	Higher	N.A.	N.A.
Water Warming	4.20	Moderate	7.17	Higher
Nitrate Removal	1.98	Moderate	6.31	Higher
Water Cooling	4.60	Moderate	3.16	Moderate
Amphibian Habitat	3.44	Moderate	4.09	Moderate
Stream Flow Support	3.33	Moderate	2.45	Moderate
Native Plant Habitat	4.19	Moderate	1.66	Lower
Waterbird Nesting Habitat	3.30	Moderate	0.00	Lower
Water Storage	3.16	Moderate	1.11	Lower
Sediment Retention & Stabilization	1.81	Lower	0.24	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Stressors	N.A.	N.A.	3.47	Lower
Public Use & Recognition	N.A.	N.A.	2.04	Lower
Wetland Ecological Condition	N.A.	N.A.	1.93	Lower
Wetland Risk	N.A.	N.A.	1.76	Lower



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SV24 • **type:** for. peatland
 • **acres:** 50.0 • **boundary**
criteria: w-u, type, pa, subsh •
pin: 4B1901070010 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.93	Higher	3.33	Moderate
Pollinator Habitat	7.27	Higher	4.07	Moderate
Organic Nutrient Export	8.50	Higher	N.A.	N.A.
Carbon Sequestration	6.54	Higher	N.A.	N.A.
Native Plant Habitat	4.20	Moderate	2.31	Moderate
Phosphorus Retention	2.65	Moderate	2.65	Moderate
Water Warming	2.44	Moderate	5.25	Moderate
Water Cooling	4.98	Moderate	1.58	Lower
Invertebrate Habitat	3.53	Moderate	0.65	Lower
Amphibian Habitat	3.08	Moderate	3.27	Lower
Water Storage	2.92	Moderate	1.11	Lower
Nitrate Removal	1.32	Lower	6.57	Higher
Stream Flow Support	2.55	Lower	1.93	Moderate
Sediment Retention & Stabilization	1.84	Lower	3.81	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.89	Moderate
Wetland Risk	N.A.	N.A.	5.99	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.32	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.82	Lower



SV25 • **type:** open peat-land • **acres:** 1.1 • **boundary criteria:** type • **pin:** 4B1901070010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	7.69	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.05	Moderate	5.56	Moderate
Pollinator Habitat	4.35	Moderate	4.47	Moderate
Stream Flow Support	3.53	Moderate	1.91	Moderate
Water Cooling	4.60	Moderate	1.47	Lower
Waterbird Feeding Habitat	3.63	Moderate	0.00	Lower
Invertebrate Habitat	3.43	Moderate	0.51	Lower
Native Plant Habitat	2.98	Lower	2.95	Moderate
Nitrate Removal	0.55	Lower	3.54	Moderate
Amphibian Habitat	1.69	Lower	3.35	Lower
Phosphorus Retention	1.06	Lower	1.06	Lower
Sediment Retention & Stabilization	0.99	Lower	0.28	Lower
Water Storage	0.79	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.64	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.90	Moderate
Wetland Risk	N.A.	N.A.	5.61	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.43	Lower
Public Use & Recognition	N.A.	N.A.	1.94	Lower

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SV26 • **type:** forested peatland
 • **acres:** 7.4 • **boundary criteria:** w-u, pa • **pin:** 4B1901070010
 • no known or probable anadromous fish

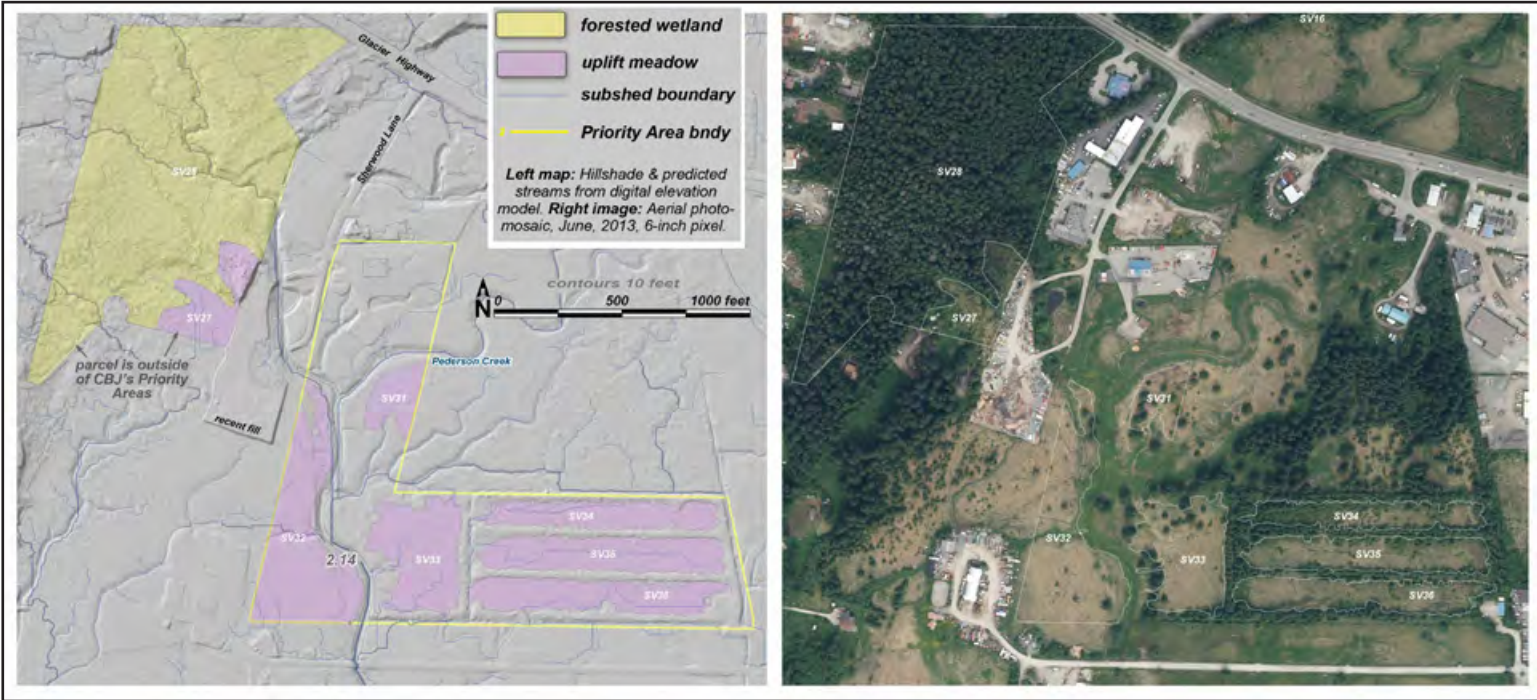


Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.50	Higher	4.07	Moderate
Songbird, Raptor, & Mammal Habitat	8.00	Higher	3.33	Moderate
Organic Nutrient Export	8.46	Higher	N.A.	N.A.
Carbon Sequestration	6.18	Higher	N.A.	N.A.
Water Warming	2.94	Moderate	6.41	Higher
Nitrate Removal	2.39	Moderate	6.57	Higher
Native Plant Habitat	5.01	Moderate	2.31	Moderate
Stream Flow Support	4.34	Moderate	1.68	Moderate
Water Cooling	4.28	Moderate	3.51	Moderate
Water Storage	3.58	Moderate	1.11	Lower
Amphibian Habitat	3.33	Moderate	3.33	Lower
Sediment Retention & Stabilization	1.57	Lower	2.70	Moderate
Phosphorus Retention	2.43	Lower	2.43	Lower
Invertebrate Habitat	2.26	Lower	0.68	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.80	Moderate
Wetland Sensitivity	N.A.	N.A.	6.77	Moderate
Wetland Risk	N.A.	N.A.	5.59	Moderate
Public Use & Recognition	N.A.	N.A.	3.77	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.60	Lower

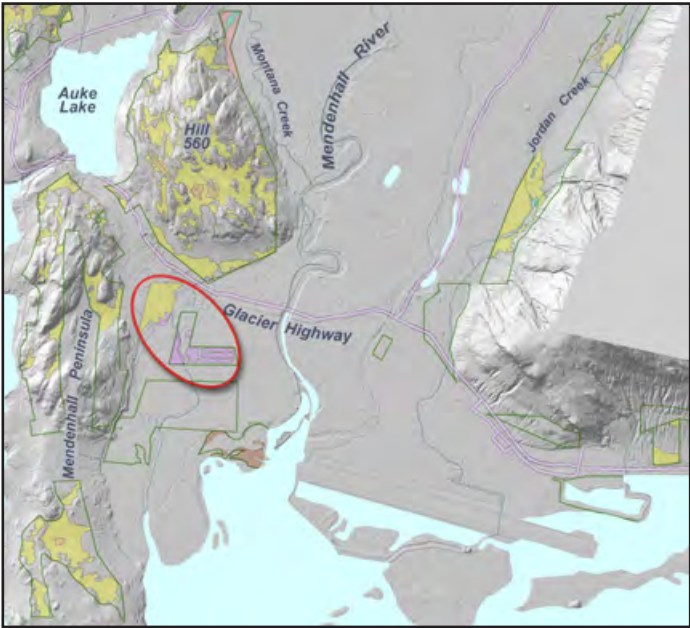


SV27 • **type:** uplift meadow • **acres:** 1.7 • **boundary criteria:** type, pa • **pin:** 4B1701130020 • **no** known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.40	Higher	7.20	Higher
Phosphorus Retention	4.43	Higher	4.43	Higher
Water Storage	5.76	Higher	2.78	Lower
Organic Nutrient Export	7.73	Higher	N.A.	N.A.
Waterbird Nesting Habitat	5.02	Moderate	9.80	Higher
Pollinator Habitat	4.83	Moderate	7.99	Higher
Amphibian Habitat	4.21	Moderate	6.92	Higher
Native Plant Habitat	4.16	Moderate	7.14	Higher
Sediment Retention & Stabilization	3.41	Moderate	10.00	Higher
Nitrate Removal	2.25	Moderate	6.57	Higher
Waterbird Feeding Habitat	4.77	Moderate	4.96	Moderate
Water Warming	3.68	Moderate	2.99	Moderate
Water Cooling	3.30	Moderate	1.75	Lower
Invertebrate Habitat	2.20	Lower	10.00	Higher
Stream Flow Support	0.76	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.97	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	8.14	Higher
Wetland Ecological Condition	N.A.	N.A.	7.46	Higher
Wetland Stressors	N.A.	N.A.	7.18	Moderate
Wetland Sensitivity	N.A.	N.A.	2.90	Lower
Public Use & Recognition	N.A.	N.A.	1.92	Lower



Unit maps for SV27 28 31 32 33 34
35 36





SV28 • **type:** for. peatland •
acres: 21.3 • **boundary criteria:**
 type, pa • **pin:** 4B1701130020 •
 known or probable anadromous fish

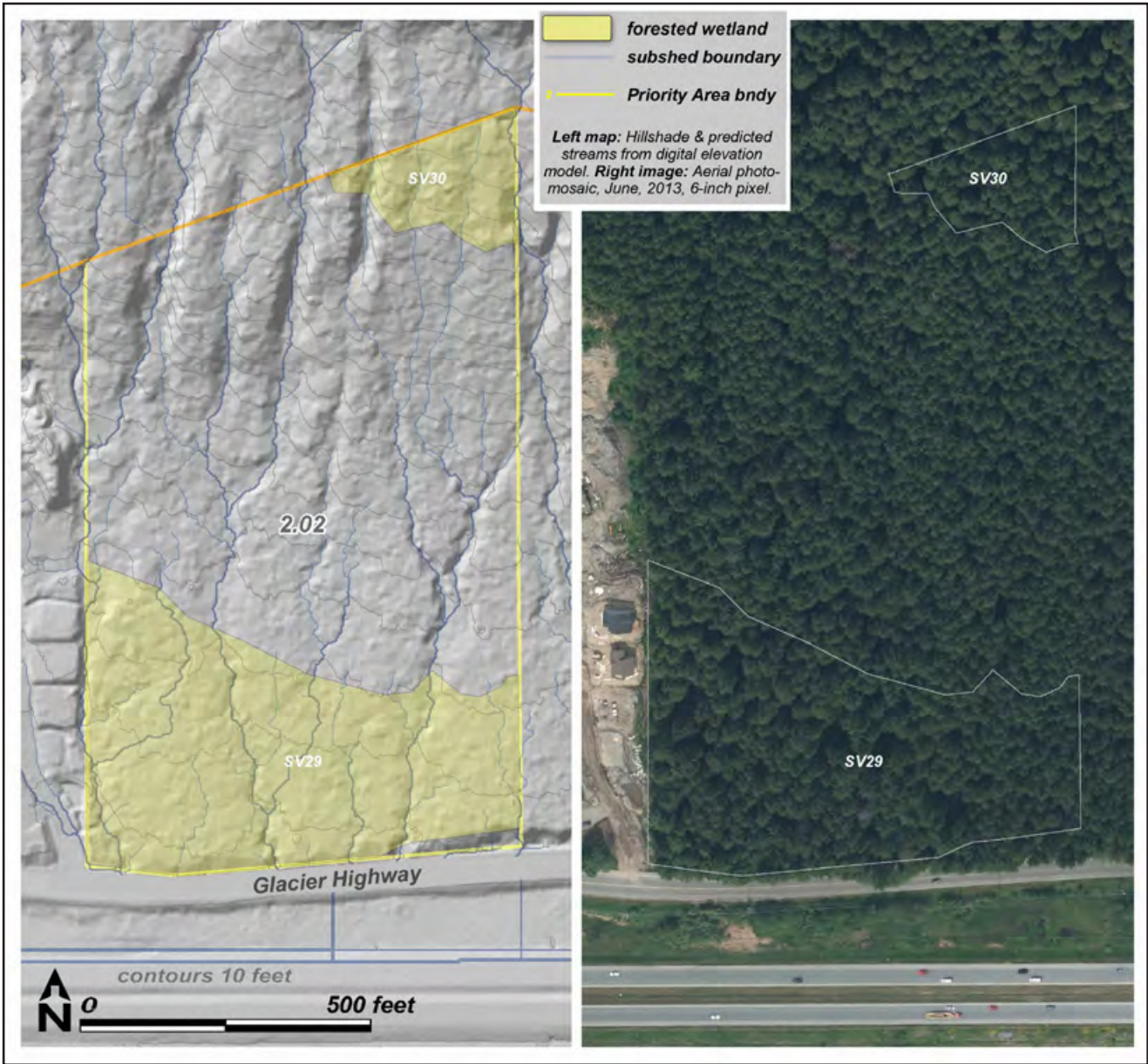
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.93	Higher	3.33	Moderate
Pollinator Habitat	7.27	Higher	4.07	Moderate
Organic Nutrient Export	8.50	Higher	N.A.	N.A.
Carbon Sequestration	6.54	Higher	N.A.	N.A.
Native Plant Habitat	4.20	Moderate	2.31	Moderate
Phosphorus Retention	2.65	Moderate	2.65	Moderate
Water Warming	2.44	Moderate	5.25	Moderate
Water Cooling	4.98	Moderate	1.58	Lower
Invertebrate Habitat	3.53	Moderate	0.65	Lower
Amphibian Habitat	3.08	Moderate	3.27	Lower
Water Storage	2.92	Moderate	1.11	Lower
Nitrate Removal	1.32	Lower	6.57	Higher
Stream Flow Support	2.55	Lower	1.93	Moderate
Sediment Retention & Stabilization	1.84	Lower	3.81	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.89	Moderate
Wetland Risk	N.A.	N.A.	5.99	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.32	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.82	Lower

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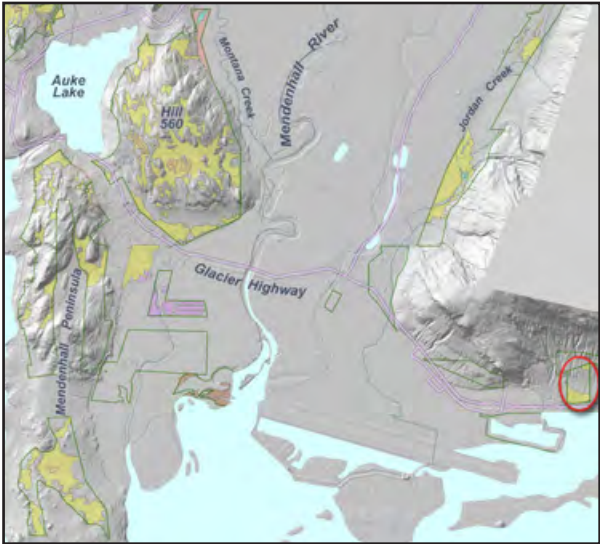


SV29 • **type:** for. peatland •
acres: 6.3 • **boundary criteria:**
 w-u, pa • **pin:** 5B1401010010 •
 no known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Invertebrate Habitat	5.71	Higher	0.18	Lower
Carbon Sequestration	6.65	Higher	N.A.	N.A.
Pollinator Habitat	6.28	Moderate	4.43	Moderate
Native Plant Habitat	3.68	Moderate	2.88	Moderate
Songbird, Raptor, & Mammal Habitat	5.45	Moderate	0.83	Lower
Water Cooling	4.60	Moderate	1.05	Lower
Organic Nutrient Export	6.30	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.01	Lower	10.00	Higher
Stream Flow Support	2.02	Lower	2.37	Moderate
Nitrate Removal	1.60	Lower	3.64	Moderate
Amphibian Habitat	2.51	Lower	1.21	Lower
Phosphorus Retention	1.44	Lower	1.44	Lower
Water Storage	0.85	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	9.33	Higher
Wetland Risk	N.A.	N.A.	8.25	Higher
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Public Use & Recognition	N.A.	N.A.	2.48	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.58	Lower



Unit maps for SV29 30



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SV30 • **type:** for. peatland •
acres: 1.1 • **boundary criteria:**
 w-u, pa • **pin:** 5B1401010010 •
 no known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	8.43	Higher	1.05	Lower
Water Warming	8.40	Higher	2.08	Lower
Invertebrate Habitat	7.11	Higher	0.37	Lower
Pollinator Habitat	6.14	Moderate	4.43	Moderate
Native Plant Habitat	4.51	Moderate	2.88	Moderate
Nitrate Removal	2.82	Moderate	3.54	Moderate
Songbird, Raptor, & Mammal Habitat	6.47	Moderate	1.67	Lower
Organic Nutrient Export	7.33	Moderate	N.A.	N.A.
Carbon Sequestration	5.14	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.08	Lower	10.00	Higher
Stream Flow Support	3.16	Lower	2.65	Moderate
Amphibian Habitat	2.70	Lower	2.06	Lower
Phosphorus Retention	1.36	Lower	1.36	Lower
Water Storage	0.18	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	7.10	Moderate
Wetland Risk	N.A.	N.A.	5.75	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.27	Lower
Public Use & Recognition	N.A.	N.A.	0.99	Lower



SV31 • **type:** uplift meadow • **acres:** 1.0 • **boundary criteria:** w-u, pa • **pin:** 4B1701100120
4B1701100210 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.01	Higher	4.01	Higher
Water Storage	7.26	Higher	5.00	Moderate
Sediment Retention & Stabilization	7.74	Higher	1.93	Lower
Nitrate Removal	3.68	Higher	2.78	Lower
Carbon Sequestration	6.07	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	4.38	Moderate	10.00	Higher
Amphibian Habitat	3.83	Moderate	4.17	Moderate
Pollinator Habitat	3.31	Lower	6.61	Higher
Invertebrate Habitat	2.97	Lower	10.00	Higher
Native Plant Habitat	0.97	Lower	5.19	Moderate
Stream Flow Support	0.54	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Cooling	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	4.97	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.43	Moderate
Wetland Sensitivity	N.A.	N.A.	6.24	Moderate
Wetland Risk	N.A.	N.A.	5.63	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.60	Moderate
Public Use & Recognition	N.A.	N.A.	2.83	Moderate

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SV32 • **type:** uplift meadow • **acres:** 4.9 • **boundary criteria:** w-u, pa • **pin:** 4B1701100120 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Storage	7.26	Higher	10.00	Higher
Phosphorus Retention	4.34	Higher	4.34	Higher
Sediment Retention & Stabilization	7.74	Higher	1.93	Lower
Nitrate Removal	4.11	Higher	2.78	Lower
Songbird, Raptor, & Mammal Habitat	4.05	Moderate	10.00	Higher
Amphibian Habitat	3.78	Moderate	4.17	Moderate
Carbon Sequestration	5.68	Moderate	N.A.	N.A.
Invertebrate Habitat	2.97	Lower	10.00	Higher
Pollinator Habitat	2.40	Lower	6.61	Higher
Native Plant Habitat	1.62	Lower	5.19	Moderate
Stream Flow Support	0.27	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Cooling	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.17	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.27	Moderate
Wetland Sensitivity	N.A.	N.A.	6.24	Moderate
Wetland Risk	N.A.	N.A.	5.56	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.80	Moderate
Public Use & Recognition	N.A.	N.A.	2.74	Moderate



SV33 • **type:** uplift meadow
 • **acres:** 3.0 • **bound-**
ary criteria: w-u, pa • **pin:**
 4B1701100120 • known or prob-
 able anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.26	Higher	10.00	Higher
Waterbird Feeding Habitat	7.04	Higher	10.00	Higher
Waterbird Nesting Habitat	6.42	Higher	10.00	Higher
Water Cooling	5.72	Higher	0.92	Lower
Resident Fish Habitat	5.77	Moderate	7.12	Higher
Amphibian Habitat	4.23	Moderate	7.52	Higher
Invertebrate Habitat	3.81	Moderate	10.00	Higher
Anadromous Fish Habitat	4.60	Moderate	6.17	Moderate
Native Plant Habitat	4.12	Moderate	5.19	Moderate
Water Storage	3.94	Moderate	5.00	Moderate
Phosphorus Retention	3.43	Moderate	3.43	Moderate
Water Warming	4.08	Moderate	0.93	Lower
Nitrate Removal	3.08	Moderate	2.78	Lower
Carbon Sequestration	4.37	Moderate	N.A.	N.A.
Pollinator Habitat	2.23	Lower	6.61	Higher
Sediment Retention & Stabilization	2.26	Lower	1.93	Lower
Stream Flow Support	0.67	Lower	0.00	Lower
Organic Nutrient Export	5.28	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	7.63	Moderate
Wetland Risk	N.A.	N.A.	6.02	Moderate
Public Use & Recognition	N.A.	N.A.	2.60	Moderate
Wetland Sensitivity	N.A.	N.A.	3.01	Lower
Wetland Ecological Condition	N.A.	N.A.	1.61	Lower

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SV34 • **type:** uplift meadow
 • **acres:** 2.0 • **boundary criteria:** w-u • **pin:** 4B1701100120 •
 known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.38	Higher	10.00	Higher
Waterbird Feeding Habitat	7.03	Higher	10.00	Higher
Resident Fish Habitat	5.73	Moderate	7.12	Higher
Waterbird Nesting Habitat	5.52	Moderate	10.00	Higher
Water Cooling	5.17	Moderate	5.29	Higher
Amphibian Habitat	3.85	Moderate	7.61	Higher
Anadromous Fish Habitat	6.14	Moderate	6.17	Moderate
Water Storage	4.86	Moderate	5.00	Moderate
Phosphorus Retention	2.70	Moderate	2.70	Moderate
Nitrate Removal	3.06	Moderate	2.78	Lower
Sediment Retention & Stabilization	2.96	Moderate	1.93	Lower
Organic Nutrient Export	6.81	Moderate	N.A.	N.A.
Pollinator Habitat	3.86	Lower	6.61	Higher
Stream Flow Support	2.37	Lower	5.66	Higher
Invertebrate Habitat	1.68	Lower	10.00	Higher
Native Plant Habitat	2.15	Lower	5.19	Moderate
Water Warming	1.43	Lower	3.85	Moderate
Carbon Sequestration	2.52	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	7.00	Moderate
Wetland Risk	N.A.	N.A.	5.23	Moderate
Public Use & Recognition	N.A.	N.A.	2.97	Moderate
Wetland Sensitivity	N.A.	N.A.	3.82	Lower
Wetland Ecological Condition	N.A.	N.A.	1.34	Lower



SV35 • **type:** uplift meadow
 • **acres:** 2.9 • **boundary criteria:** w-u • **pin:** 4B1701100120 •
 known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	7.10	Higher	10.00	Higher
Water Storage	5.34	Higher	5.00	Moderate
Nitrate Removal	3.20	Higher	3.03	Lower
Songbird, Raptor, & Mammal Habitat	6.93	Moderate	10.00	Higher
Resident Fish Habitat	5.73	Moderate	7.12	Higher
Waterbird Nesting Habitat	5.53	Moderate	10.00	Higher
Amphibian Habitat	3.92	Moderate	7.29	Higher
Anadromous Fish Habitat	4.32	Moderate	6.17	Moderate
Water Cooling	4.21	Moderate	0.90	Lower
Sediment Retention & Stabilization	2.69	Moderate	1.93	Lower
Water Warming	2.44	Moderate	0.92	Lower
Organic Nutrient Export	6.39	Moderate	N.A.	N.A.
Carbon Sequestration	4.58	Moderate	N.A.	N.A.
Pollinator Habitat	3.32	Lower	6.61	Higher
Invertebrate Habitat	1.96	Lower	10.00	Higher
Native Plant Habitat	2.46	Lower	5.19	Moderate
Phosphorus Retention	2.48	Lower	2.48	Lower
Stream Flow Support	0.69	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.91	Higher
Wetland Risk	N.A.	N.A.	6.05	Moderate
Public Use & Recognition	N.A.	N.A.	3.43	Moderate
Wetland Sensitivity	N.A.	N.A.	3.01	Lower
Wetland Ecological Condition	N.A.	N.A.	1.02	Lower

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SV36 • **type:** uplift meadow
 • **acres:** 2.7 • **boundary criteria:** w-u • **pin:** 4B1701100120 •
 known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	7.25	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	7.12	Higher	10.00	Higher
Water Storage	5.34	Higher	5.00	Moderate
Nitrate Removal	3.20	Higher	3.03	Lower
Resident Fish Habitat	5.73	Moderate	6.15	Higher
Waterbird Nesting Habitat	5.59	Moderate	10.00	Higher
Amphibian Habitat	3.81	Moderate	7.55	Higher
Anadromous Fish Habitat	4.32	Moderate	5.33	Moderate
Water Cooling	4.21	Moderate	0.90	Lower
Sediment Retention & Stabilization	2.69	Moderate	1.93	Lower
Water Warming	2.44	Moderate	0.92	Lower
Organic Nutrient Export	6.40	Moderate	N.A.	N.A.
Carbon Sequestration	4.04	Moderate	N.A.	N.A.
Pollinator Habitat	3.51	Lower	6.61	Higher
Invertebrate Habitat	2.00	Lower	10.00	Higher
Native Plant Habitat	2.99	Lower	5.19	Moderate
Phosphorus Retention	2.48	Lower	2.48	Lower
Stream Flow Support	0.69	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.77	Moderate
Wetland Risk	N.A.	N.A.	4.85	Moderate
Public Use & Recognition	N.A.	N.A.	3.62	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower
Wetland Ecological Condition	N.A.	N.A.	1.02	Lower



SV39 • **type:** for. peatland •
acres: 1.6 • **boundary criteria:**
 w-u, pa • **pin:** 4B2301010170 •
 no known or probable anadromous
 fish

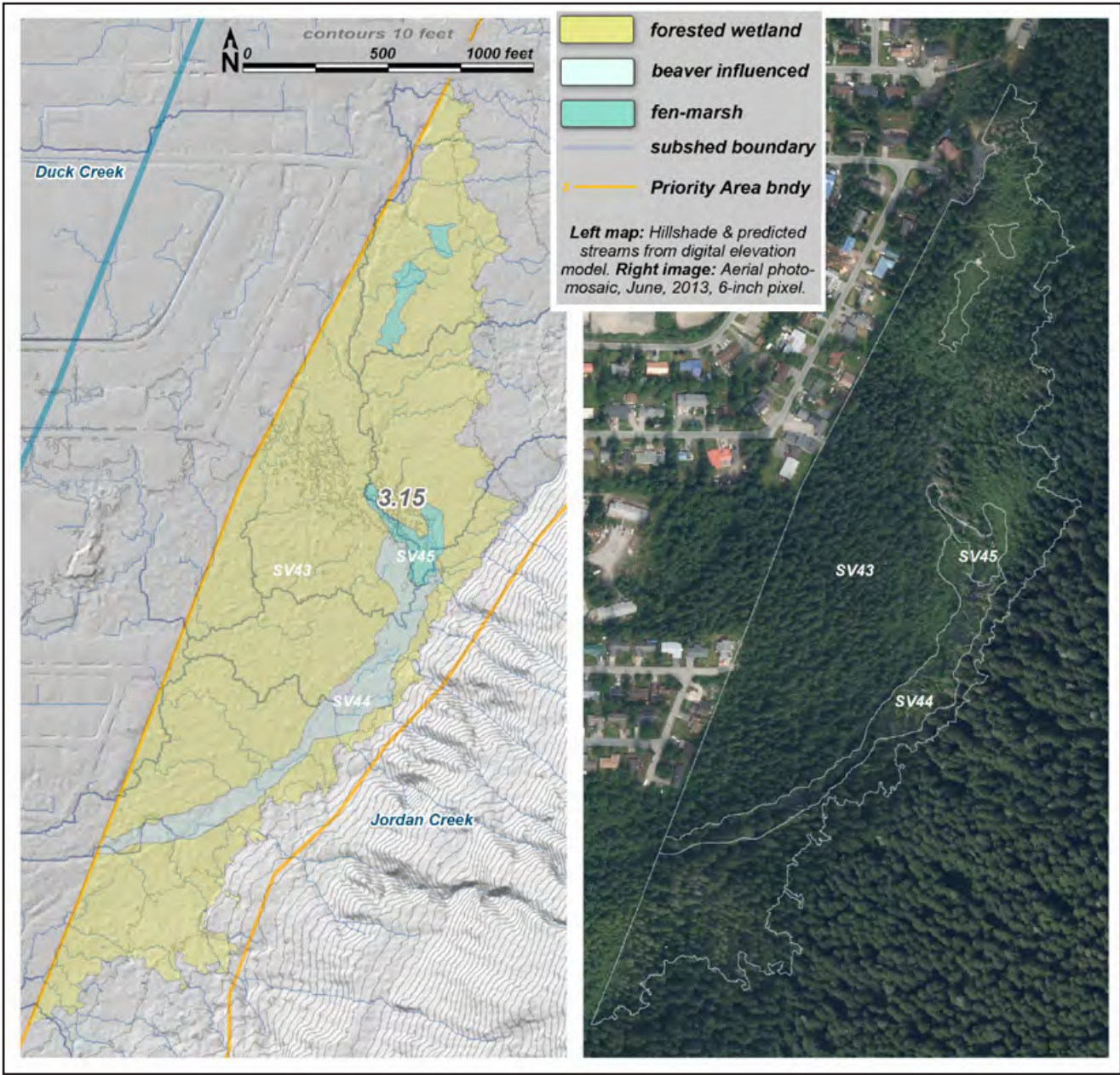
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.75	Higher	4.07	Moderate
Songbird, Raptor, & Mammal Habitat	9.07	Higher	2.50	Lower
Organic Nutrient Export	8.36	Higher	N.A.	N.A.
Water Warming	3.05	Moderate	7.35	Higher
Stream Flow Support	5.09	Moderate	1.76	Moderate
Water Cooling	3.68	Moderate	3.95	Moderate
Water Storage	3.58	Moderate	1.11	Lower
Carbon Sequestration	6.02	Moderate	N.A.	N.A.
Nitrate Removal	1.11	Lower	6.31	Higher
Native Plant Habitat	3.04	Lower	2.31	Moderate
Sediment Retention & Stabilization	2.04	Lower	3.77	Moderate
Amphibian Habitat	1.86	Lower	4.22	Moderate
Invertebrate Habitat	2.69	Lower	0.69	Lower
Phosphorus Retention	2.51	Lower	2.51	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	6.16	Moderate
Wetland Risk	N.A.	N.A.	4.74	Moderate
Public Use & Recognition	N.A.	N.A.	2.51	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.23	Lower

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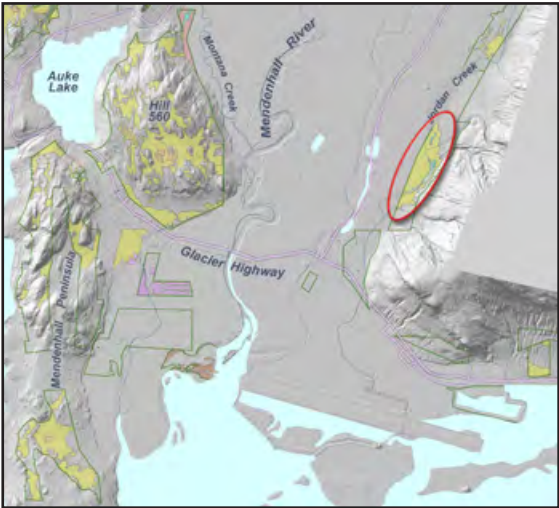


SV43 • **type:** forested peatland • **acres:** 38.4 • **boundary criteria:** w-u, type, pa • **pin:** 5B2101520140 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	7.57	Higher	6.73	Higher
Pollinator Habitat	7.08	Higher	10.00	Higher
Stream Flow Support	6.47	Higher	7.69	Higher
Water Cooling	5.49	Higher	7.47	Higher
Nitrate Removal	4.69	Higher	7.07	Higher
Anadromous Fish Habitat	9.16	Higher	5.83	Moderate
Native Plant Habitat	4.76	Moderate	10.00	Higher
Water Storage	4.20	Moderate	10.00	Higher
Water Warming	4.12	Moderate	6.41	Higher
Invertebrate Habitat	3.40	Moderate	10.00	Higher
Amphibian Habitat	3.31	Moderate	6.67	Higher
Songbird, Raptor, & Mammal Habitat	5.81	Moderate	6.67	Moderate
Sediment Retention & Stabilization	3.13	Moderate	3.09	Moderate
Waterbird Nesting Habitat	4.37	Moderate	0.00	Lower
Phosphorus Retention	2.11	Lower	2.11	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.77	Lower	N.A.	N.A.
Carbon Sequestration	2.63	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Ecological Condition	N.A.	N.A.	7.27	Higher
Wetland Risk	N.A.	N.A.	6.84	Higher
Wetland Stressors	N.A.	N.A.	6.03	Moderate
Public Use & Recognition	N.A.	N.A.	2.37	Lower



Unit maps for SV43 44 45





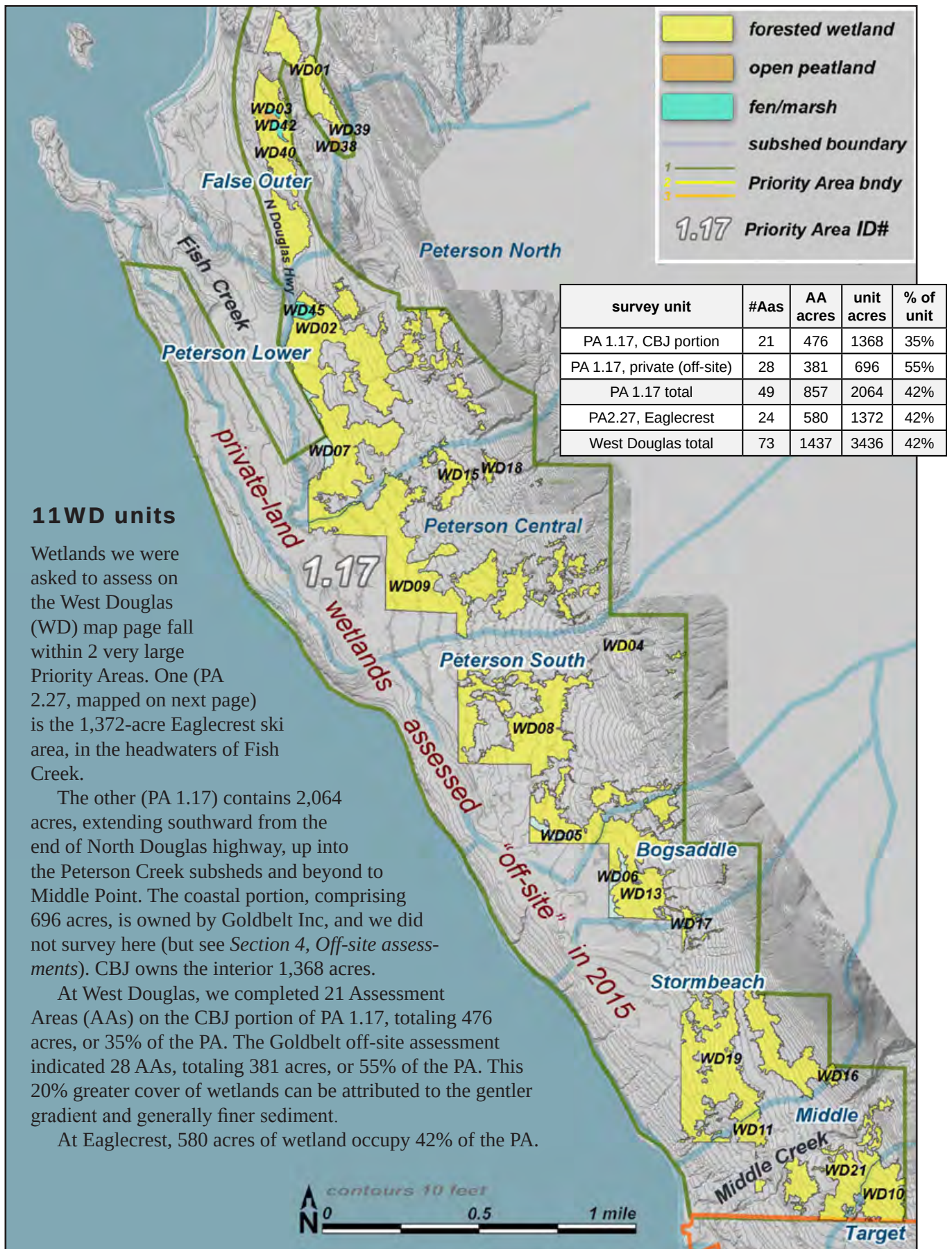
SV44 • **type:** beaver influenced • **acres:** 3.5 • **boundary criteria:** type • **pin:** 5B2101520140 •
known or probable anadromous fish

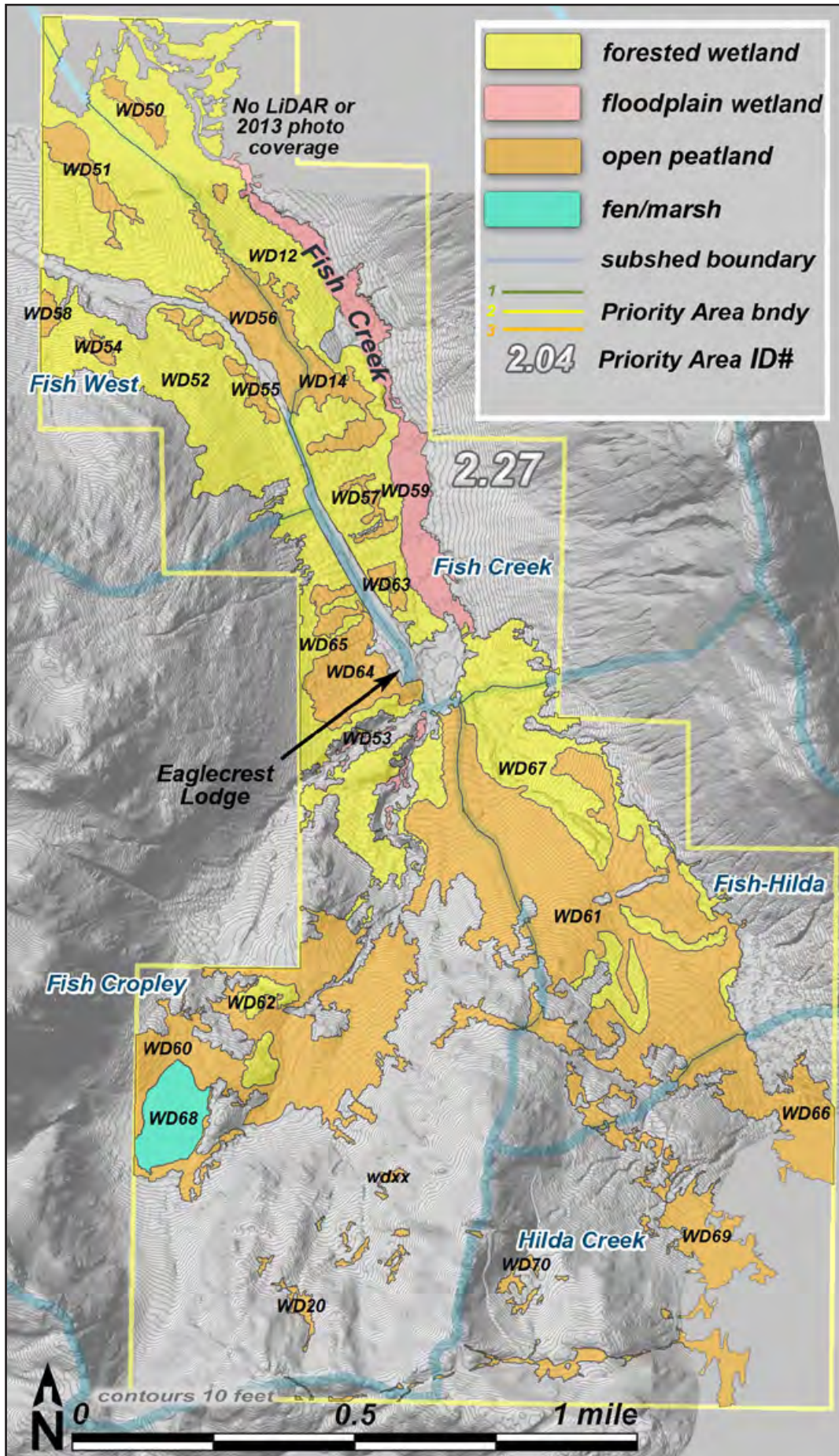
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Nesting Habitat	9.58	Higher	9.80	Higher
Resident Fish Habitat	8.97	Higher	7.03	Higher
Native Plant Habitat	7.36	Higher	10.00	Higher
Amphibian Habitat	5.78	Higher	6.67	Higher
Invertebrate Habitat	5.76	Higher	10.00	Higher
Nitrate Removal	3.60	Higher	6.82	Higher
Waterbird Feeding Habitat	8.93	Higher	3.96	Moderate
Anadromous Fish Habitat	8.26	Higher	6.10	Moderate
Water Warming	5.67	Higher	4.71	Moderate
Pollinator Habitat	5.31	Moderate	10.00	Higher
Stream Flow Support	3.53	Moderate	8.32	Higher
Water Cooling	3.99	Moderate	2.83	Moderate
Phosphorus Retention	2.62	Moderate	2.62	Moderate
Water Storage	2.30	Lower	10.00	Higher
Sediment Retention & Stabilization	2.05	Lower	2.97	Moderate
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.86	Lower	N.A.	N.A.
Carbon Sequestration	2.24	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	7.07	Higher
Wetland Stressors	N.A.	N.A.	6.92	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.67	Moderate
Public Use & Recognition	N.A.	N.A.	1.51	Lower
Wetland Sensitivity	N.A.	N.A.	N.A.	N.A.



SV45 • **type:** fen/marsh • **acres:** 1.3 • **boundary criteria:** type • **pin:** 5B2101520140 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	8.74	Higher	7.09	Higher
Waterbird Feeding Habitat	8.24	Higher	5.94	Higher
Nitrate Removal	3.27	Higher	6.82	Higher
Anadromous Fish Habitat	8.49	Higher	5.67	Moderate
Waterbird Nesting Habitat	7.33	Higher	9.70	Moderate
Amphibian Habitat	5.57	Higher	2.29	Lower
Resident Fish Habitat	6.92	Moderate	6.54	Higher
Water Storage	4.70	Moderate	10.00	Higher
Water Cooling	4.21	Moderate	7.18	Higher
Water Warming	3.19	Moderate	6.70	Higher
Sediment Retention & Stabilization	2.63	Moderate	2.55	Moderate
Native Plant Habitat	4.98	Moderate	0.43	Lower
Organic Nutrient Export	6.52	Moderate	N.A.	N.A.
Invertebrate Habitat	2.69	Lower	4.14	Moderate
Phosphorus Retention	2.19	Lower	2.19	Lower
Pollinator Habitat	0.86	Lower	0.00	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	1.54	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	8.10	Higher
Wetland Stressors	N.A.	N.A.	7.37	Moderate
Wetland Risk	N.A.	N.A.	5.66	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower
Wetland Ecological Condition	N.A.	N.A.	1.42	Lower



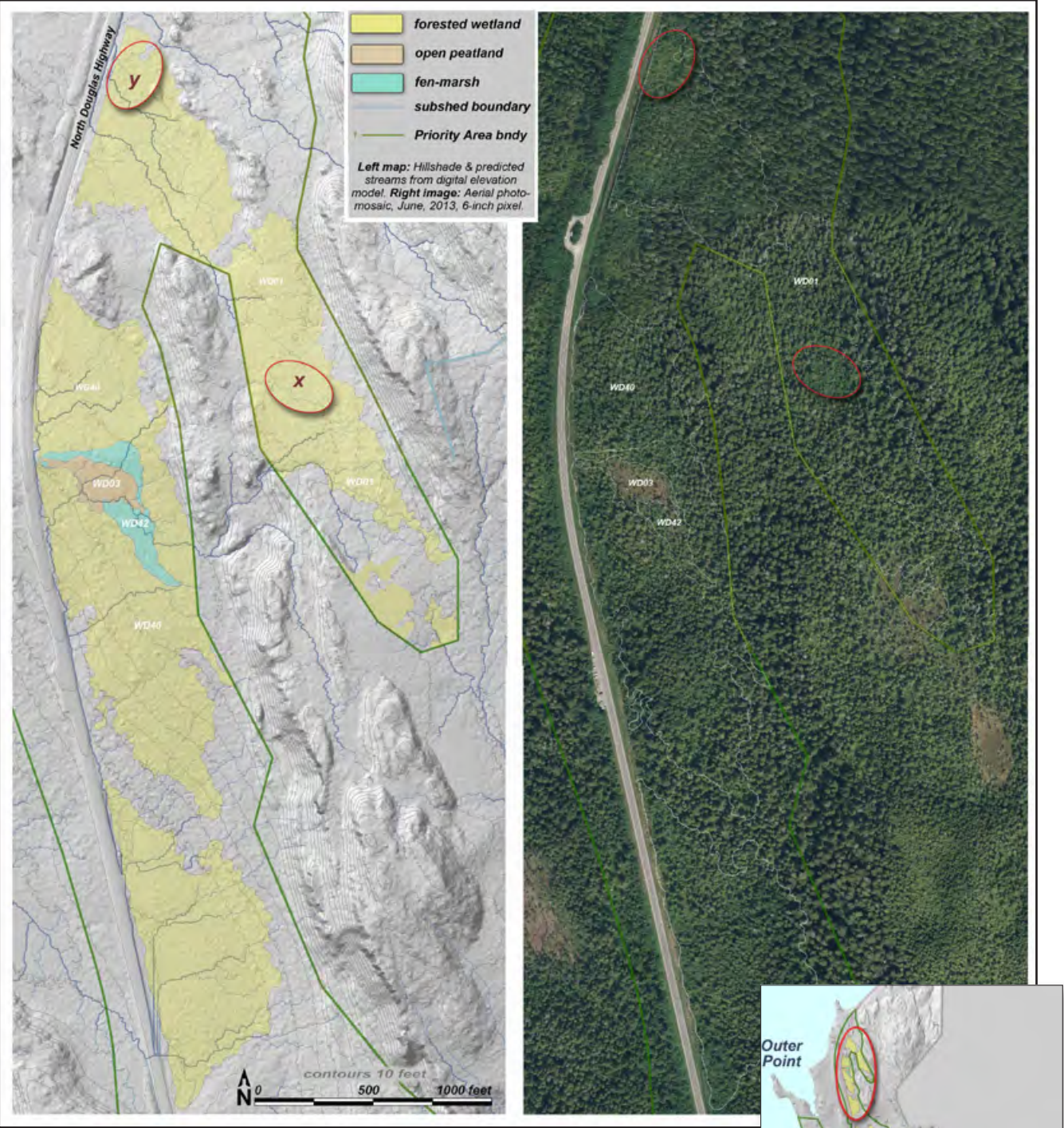


This is a somewhat misleading statistic, however. Virtually all of the low-gradient valley bottom is wetland, right up to the steeply inflecting valley walls. Even some of the mellower ski runs are wetland, as exposed muck and downslope erosion reveal in the summer season.



WD01 • **type:** forested peatland • **acres:** 17.7 • **boundary criteria:** w-u, pa • **pin:** 3D1301000010 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.02	Higher	4.02	Higher
Pollinator Habitat	8.20	Higher	3.26	Moderate
Songbird, Raptor, & Mammal Habitat	8.05	Higher	3.33	Moderate
Nitrate Removal	3.28	Higher	4.75	Moderate
Native Plant Habitat	6.61	Higher	1.45	Lower
Water Cooling	5.98	Higher	1.40	Lower
Carbon Sequestration	6.56	Higher	N.A.	N.A.
Invertebrate Habitat	4.95	Moderate	1.31	Lower
Water Storage	4.31	Moderate	1.11	Lower
Waterbird Nesting Habitat	4.11	Moderate	0.00	Lower
Amphibian Habitat	3.80	Moderate	3.37	Lower
Water Warming	3.15	Moderate	1.44	Lower
Organic Nutrient Export	7.54	Moderate	N.A.	N.A.
Stream Flow Support	2.27	Lower	2.22	Moderate
Sediment Retention & Stabilization	2.08	Lower	2.80	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.77	Moderate
Wetland Stressors	N.A.	N.A.	6.39	Moderate
Wetland Risk	N.A.	N.A.	4.96	Moderate
Public Use & Recognition	N.A.	N.A.	2.51	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.19	Lower

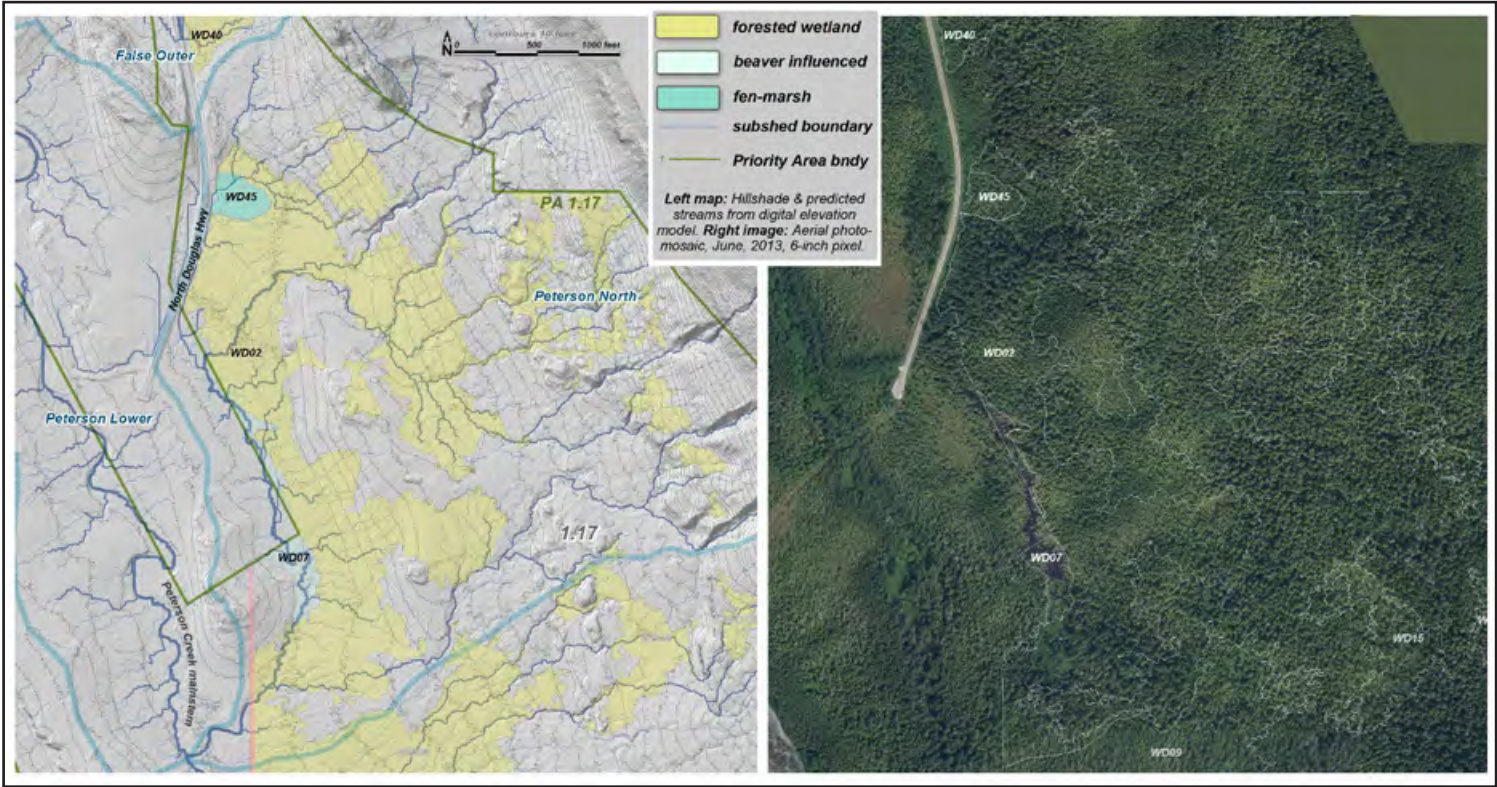


Unit maps for WD01 03 40 42

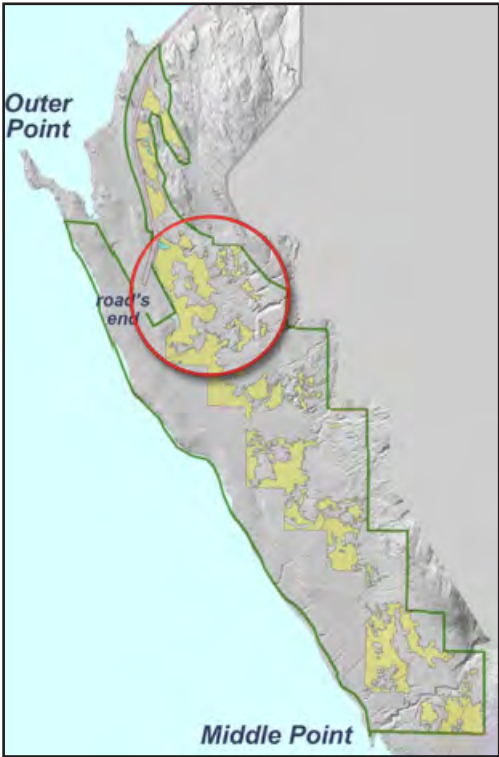


WD02 • **type:** for. peatland
 • **acres:** 96.7 • **boundary**
criteria: w-u, pa, type, subsh •
pin: 3D1301000010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	5.75	Higher	7.26	Higher
Phosphorus Retention	4.39	Higher	4.39	Higher
Anadromous Fish Habitat	9.68	Higher	3.08	Moderate
Songbird, Raptor, & Mammal Habitat	8.38	Higher	3.33	Moderate
Resident Fish Habitat	8.36	Higher	3.27	Moderate
Pollinator Habitat	8.00	Higher	3.26	Moderate
Native Plant Habitat	7.05	Higher	3.67	Moderate
Invertebrate Habitat	6.29	Higher	4.39	Moderate
Waterbird Nesting Habitat	6.27	Higher	0.00	Lower
Organic Nutrient Export	8.54	Higher	N.A.	N.A.
Carbon Sequestration	6.09	Higher	N.A.	N.A.
Water Storage	4.70	Moderate	10.00	Higher
Stream Flow Support	4.54	Moderate	8.72	Higher
Water Warming	3.87	Moderate	6.00	Higher
Nitrate Removal	2.14	Moderate	6.82	Higher
Sediment Retention & Stabilization	3.07	Moderate	3.93	Moderate
Amphibian Habitat	3.05	Moderate	3.65	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	4.40	Moderate
Wetland Stressors	N.A.	N.A.	3.46	Lower
Wetland Risk	N.A.	N.A.	2.85	Lower
Wetland Sensitivity	N.A.	N.A.	2.20	Lower
Public Use & Recognition	N.A.	N.A.	1.98	Lower



Unit maps for WD02 07 45





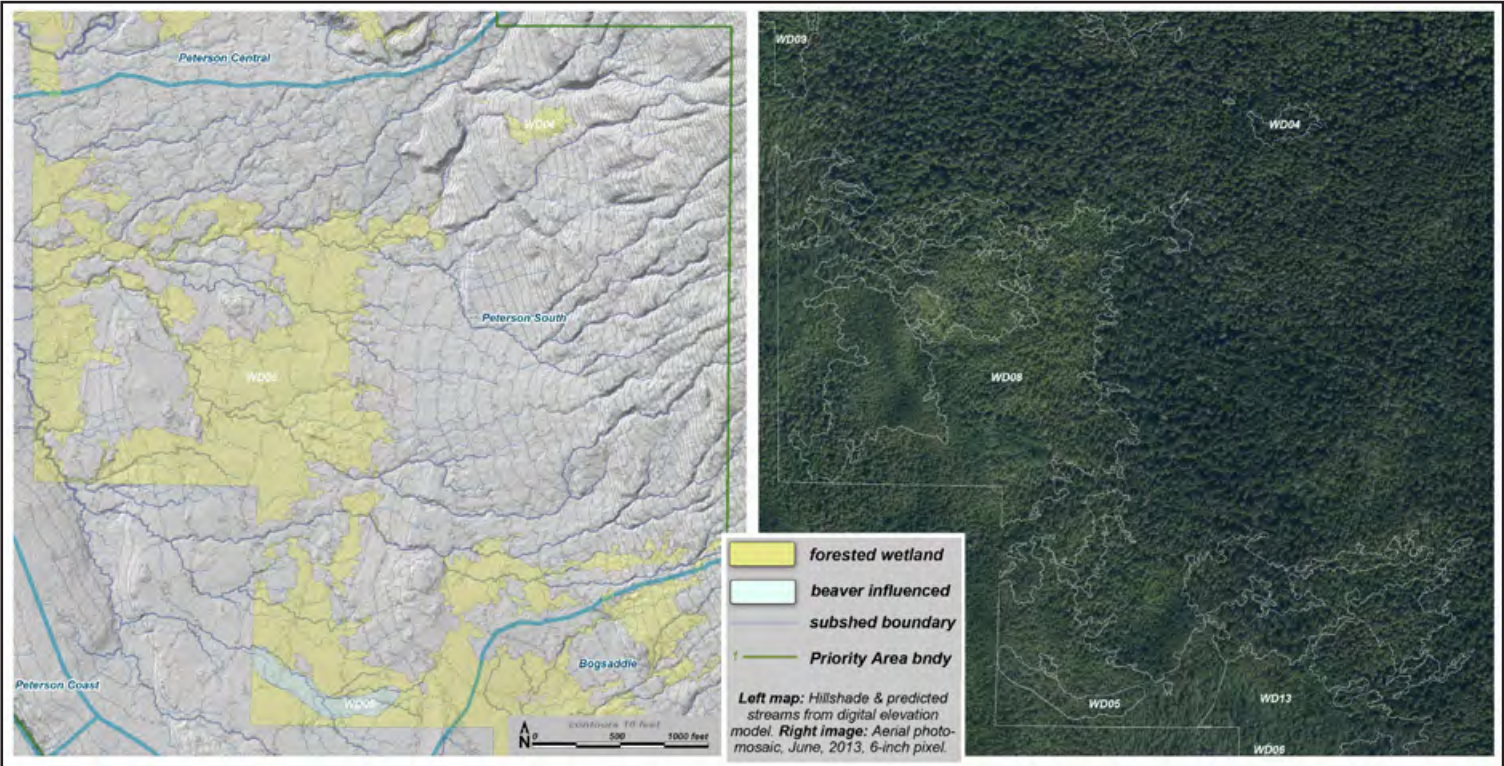
WD03 • **type:** open peatland • **acres:** 1.0 • **boundary criteria:** type • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.92	Higher	4.93	Moderate
Pollinator Habitat	7.05	Higher	3.26	Moderate
Native Plant Habitat	6.25	Higher	1.08	Lower
Water Storage	5.38	Higher	1.11	Lower
Carbon Sequestration	6.93	Higher	N.A.	N.A.
Waterbird Feeding Habitat	5.03	Moderate	6.94	Higher
Waterbird Nesting Habitat	4.45	Moderate	9.70	Moderate
Water Warming	4.33	Moderate	4.36	Moderate
Phosphorus Retention	3.83	Moderate	3.83	Moderate
Sediment Retention & Stabilization	2.90	Moderate	2.75	Moderate
Nitrate Removal	2.12	Moderate	4.49	Moderate
Water Cooling	3.54	Moderate	1.40	Lower
Invertebrate Habitat	3.36	Moderate	1.80	Lower
Organic Nutrient Export	6.04	Moderate	N.A.	N.A.
Amphibian Habitat	1.93	Lower	6.70	Higher
Stream Flow Support	2.90	Lower	1.90	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.81	Higher
Wetland Stressors	N.A.	N.A.	6.70	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.60	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Public Use & Recognition	N.A.	N.A.	1.69	Lower

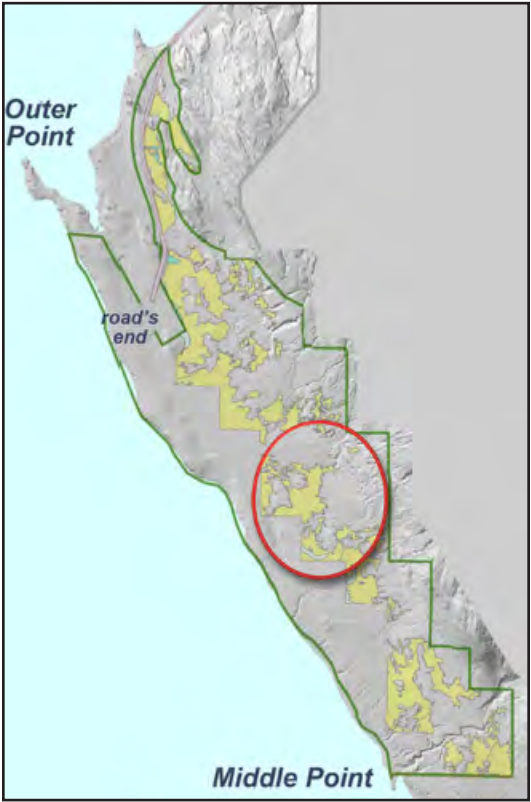


WD04 • **type:** forested peatland • **acres:** 1.2 • **boundary criteria:** type • **pin:** 3D1301000010 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	5.94	Higher	2.13	Moderate
Songbird, Raptor, & Mammal Habitat	7.74	Higher	2.22	Lower
Native Plant Habitat	5.83	Higher	0.54	Lower
Organic Nutrient Export	8.01	Higher	N.A.	N.A.
Stream Flow Support	3.51	Moderate	4.88	Higher
Pollinator Habitat	5.38	Moderate	3.15	Moderate
Water Warming	4.62	Moderate	4.54	Moderate
Sediment Retention & Stabilization	2.39	Moderate	3.81	Moderate
Nitrate Removal	2.29	Moderate	4.75	Moderate
Resident Fish Habitat	6.05	Moderate	1.15	Lower
Water Storage	4.32	Moderate	1.11	Lower
Anadromous Fish Habitat	4.18	Moderate	1.25	Lower
Amphibian Habitat	3.92	Moderate	3.11	Lower
Phosphorus Retention	1.90	Lower	1.90	Lower
Invertebrate Habitat	0.70	Lower	2.29	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	3.53	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.91	Moderate
Wetland Stressors	N.A.	N.A.	2.98	Lower
Wetland Risk	N.A.	N.A.	2.12	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower



Unit maps for WD04 05 08



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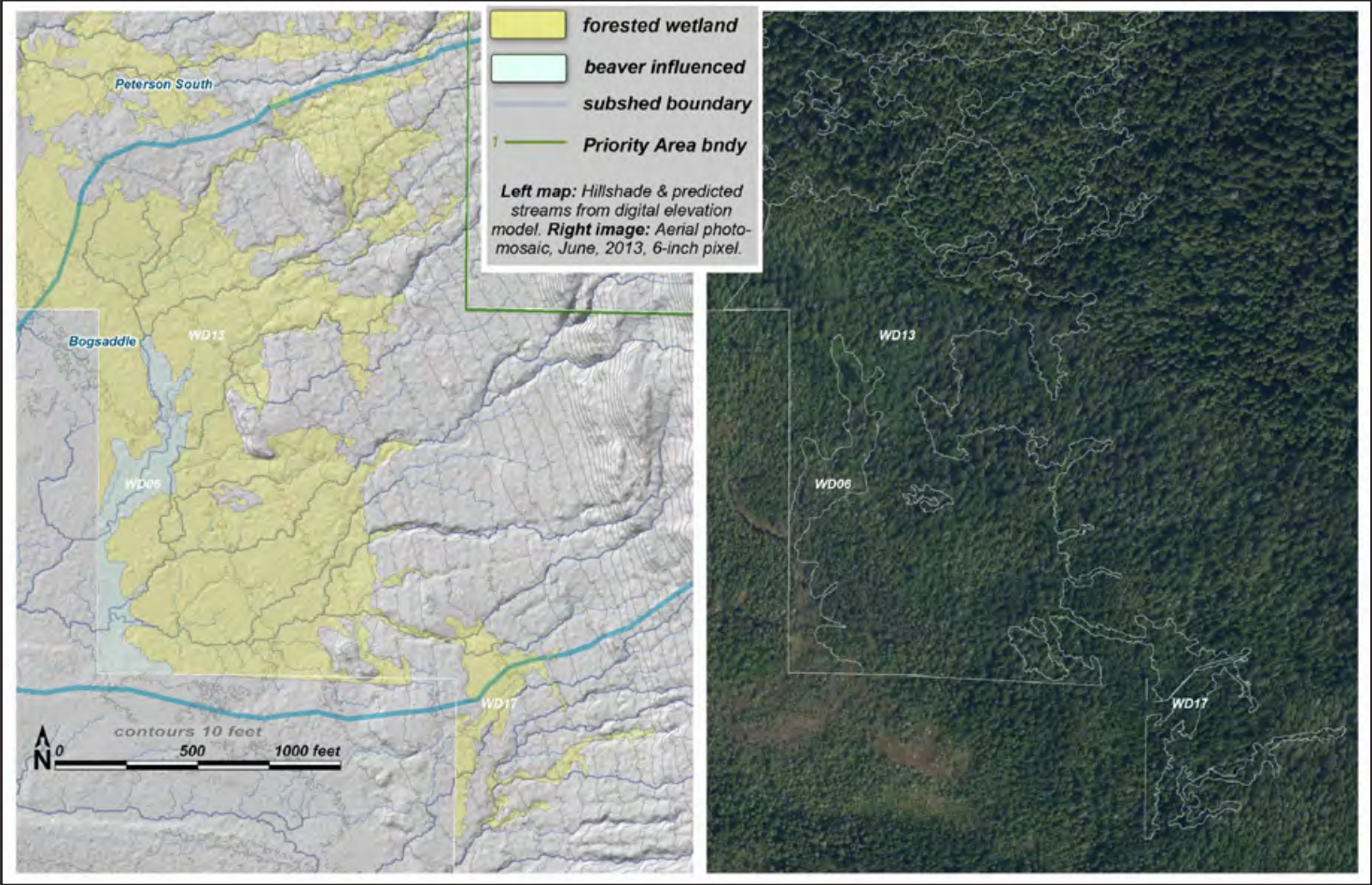
WD05 • **type:** beaver influenced • **acres:** 2.6 • **boundary criteria:** type • **pin:** 3D1301000010 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	8.72	Higher	6.76	Higher
Resident Fish Habitat	8.57	Higher	6.17	Higher
Stream Flow Support	6.05	Higher	8.87	Higher
Water Warming	5.59	Higher	7.10	Higher
Phosphorus Retention	4.41	Higher	4.41	Higher
Anadromous Fish Habitat	9.55	Higher	5.34	Moderate
Waterbird Feeding Habitat	7.83	Higher	4.23	Moderate
Waterbird Nesting Habitat	7.46	Higher	9.50	Moderate
Invertebrate Habitat	6.90	Higher	5.79	Moderate
Pollinator Habitat	6.85	Higher	3.19	Moderate
Native Plant Habitat	8.32	Higher	0.33	Lower
Organic Nutrient Export	8.50	Higher	N.A.	N.A.
Water Cooling	4.44	Moderate	7.64	Higher
Nitrate Removal	2.18	Moderate	6.06	Higher
Songbird, Raptor, & Mammal Habitat	5.70	Moderate	4.04	Moderate
Sediment Retention & Stabilization	1.61	Lower	2.07	Moderate
Water Storage	1.83	Lower	1.11	Lower
Carbon Sequestration	2.73	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.77	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.17	Moderate
Wetland Stressors	N.A.	N.A.	2.98	Lower
Wetland Risk	N.A.	N.A.	2.23	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower

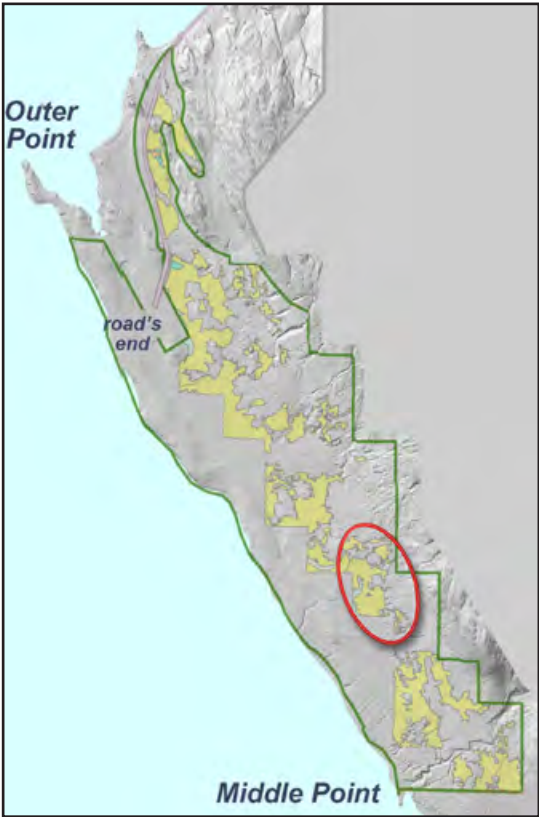


WD06 • **type:** beaver influenced • **acres:** 3.4 • **boundary criteria:** type, pa • **pin:** 3D1301000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	8.70	Higher	6.95	Higher
Resident Fish Habitat	8.48	Higher	6.09	Higher
Stream Flow Support	6.05	Higher	8.95	Higher
Water Cooling	5.40	Higher	7.75	Higher
Phosphorus Retention	4.34	Higher	4.34	Higher
Anadromous Fish Habitat	9.80	Higher	5.28	Moderate
Waterbird Feeding Habitat	7.74	Higher	4.23	Moderate
Waterbird Nesting Habitat	7.44	Higher	9.50	Moderate
Invertebrate Habitat	7.03	Higher	5.85	Moderate
Pollinator Habitat	6.85	Higher	3.19	Moderate
Native Plant Habitat	10.00	Higher	0.33	Lower
Organic Nutrient Export	8.07	Higher	N.A.	N.A.
Water Warming	4.33	Moderate	7.10	Higher
Nitrate Removal	2.74	Moderate	6.06	Higher
Songbird, Raptor, & Mammal Habitat	6.01	Moderate	4.04	Moderate
Sediment Retention & Stabilization	3.60	Moderate	2.16	Moderate
Water Storage	4.20	Moderate	1.11	Lower
Carbon Sequestration	3.26	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.77	Moderate
Wetland Stressors	N.A.	N.A.	2.98	Lower
Wetland Ecological Condition	N.A.	N.A.	2.35	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower
Wetland Risk	N.A.	N.A.	1.42	Lower



Unit maps for WD06 13 17





WD07 • **type:** beaver influenced
 • **acres:** 3.5 • **boundary criteria:**
 type, pa • **pin:** 3D1301000010 •
 known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	9.31	Higher	6.58	Higher
Waterbird Nesting Habitat	8.52	Higher	10.00	Higher
Invertebrate Habitat	8.49	Higher	10.00	Higher
Native Plant Habitat	8.14	Higher	8.19	Higher
Pollinator Habitat	7.74	Higher	8.72	Higher
Stream Flow Support	7.31	Higher	9.45	Higher
Water Warming	6.30	Higher	7.52	Higher
Amphibian Habitat	6.10	Higher	8.33	Higher
Water Storage	5.51	Higher	10.00	Higher
Phosphorus Retention	5.37	Higher	5.37	Higher
Nitrate Removal	4.63	Higher	6.57	Higher
Anadromous Fish Habitat	9.59	Higher	5.70	Moderate
Waterbird Feeding Habitat	8.35	Higher	5.00	Moderate
Sediment Retention & Stabilization	5.02	Higher	2.82	Moderate
Songbird, Raptor, & Mammal Habitat	5.99	Moderate	9.00	Higher
Water Cooling	3.77	Moderate	7.65	Higher
Organic Nutrient Export	6.61	Moderate	N.A.	N.A.
Carbon Sequestration	4.90	Moderate	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	5.23	Moderate
Wetland Sensitivity	N.A.	N.A.	4.44	Lower
Wetland Stressors	N.A.	N.A.	1.71	Lower
Wetland Risk	N.A.	N.A.	1.36	Lower
Public Use & Recognition	N.A.	N.A.	0.68	Lower

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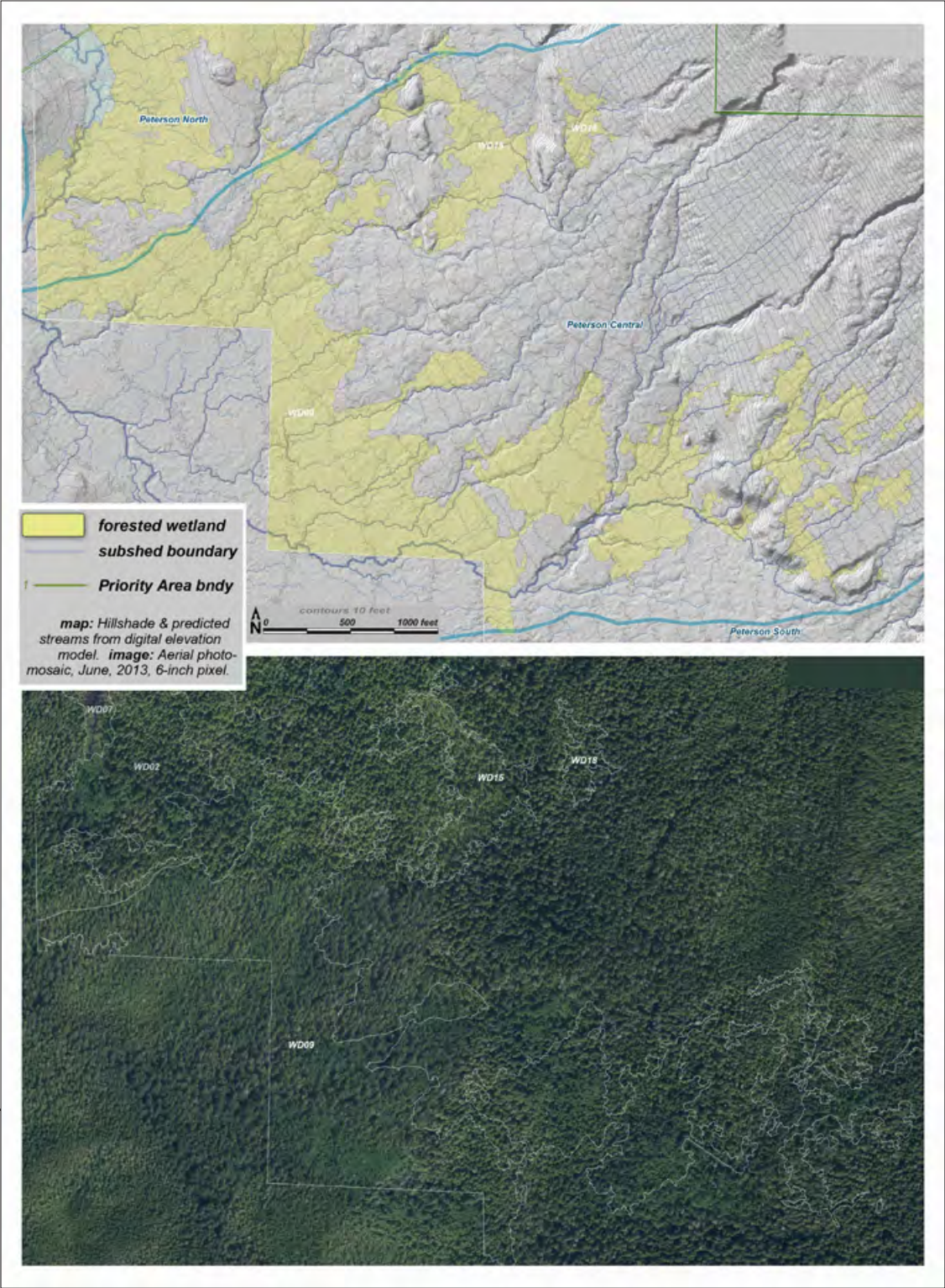
WD08 • **type:** forested peatland • **acres:** 71.5 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • **known or probable anadromous fish**

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	5.49	Higher	7.55	Higher
Nitrate Removal	4.23	Higher	6.31	Higher
Pollinator Habitat	7.30	Higher	3.15	Moderate
Anadromous Fish Habitat	9.34	Higher	1.25	Lower
Resident Fish Habitat	7.56	Higher	1.15	Lower
Amphibian Habitat	5.67	Higher	1.44	Lower
Organic Nutrient Export	9.02	Higher	N.A.	N.A.
Stream Flow Support	3.78	Moderate	7.99	Higher
Water Warming	3.28	Moderate	7.46	Higher
Invertebrate Habitat	4.59	Moderate	3.86	Moderate
Phosphorus Retention	3.70	Moderate	3.70	Moderate
Sediment Retention & Stabilization	3.47	Moderate	2.70	Moderate
Songbird, Raptor, & Mammal Habitat	5.73	Moderate	2.22	Lower
Waterbird Nesting Habitat	4.69	Moderate	0.00	Lower
Native Plant Habitat	4.45	Moderate	0.29	Lower
Water Storage	3.98	Moderate	1.11	Lower
Carbon Sequestration	5.43	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Ecological Condition	N.A.	N.A.	4.33	Moderate
Wetland Stressors	N.A.	N.A.	2.90	Lower
Wetland Risk	N.A.	N.A.	2.23	Lower
Public Use & Recognition	N.A.	N.A.	0.51	Lower



WD09 • **type:** forested peatland • **acres:** 79.6 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.22	Higher	3.26	Moderate
Native Plant Habitat	5.35	Higher	0.43	Lower
Carbon Sequestration	8.03	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	6.10	Moderate	3.33	Moderate
Resident Fish Habitat	5.76	Moderate	2.69	Moderate
Nitrate Removal	2.41	Moderate	3.54	Moderate
Water Cooling	4.60	Moderate	0.53	Lower
Sediment Retention & Stabilization	3.99	Moderate	0.23	Lower
Invertebrate Habitat	3.46	Moderate	1.07	Lower
Organic Nutrient Export	6.83	Moderate	N.A.	N.A.
Water Storage	1.02	Lower	10.00	Higher
Stream Flow Support	1.34	Lower	3.86	Moderate
Phosphorus Retention	1.79	Lower	1.79	Lower
Amphibian Habitat	1.70	Lower	1.75	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Wetland Stressors	N.A.	N.A.	2.91	Lower
Wetland Ecological Condition	N.A.	N.A.	2.26	Lower
Public Use & Recognition	N.A.	N.A.	1.32	Lower
Wetland Risk	N.A.	N.A.	1.31	Lower

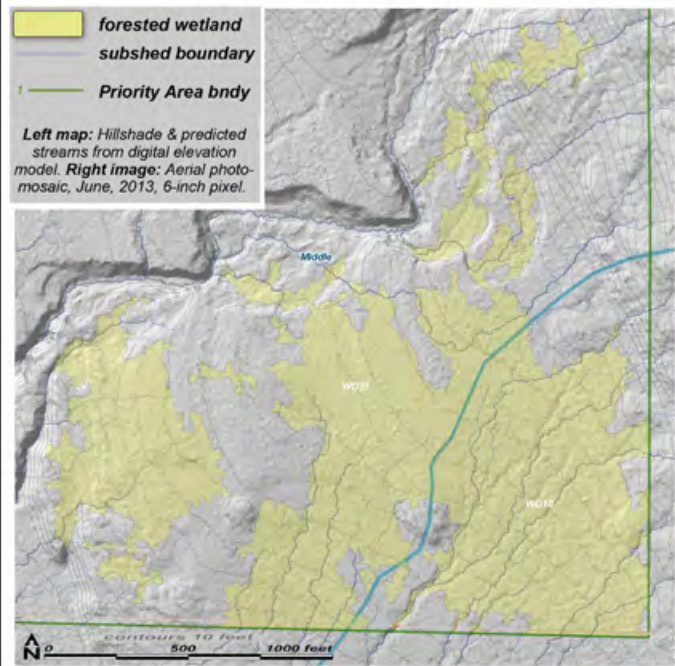


Unit maps for WD09 15 18

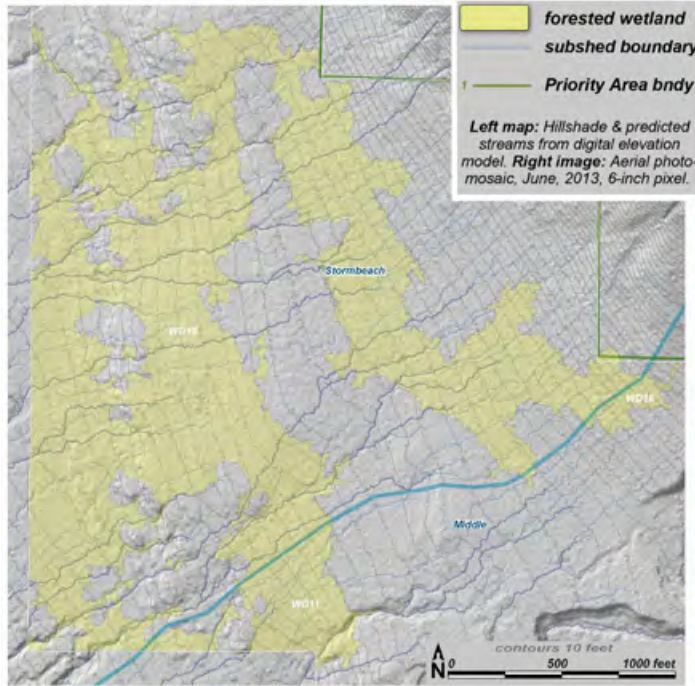


WD10 • **type:** forested peatland • **acres:** 14.9 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.48	Higher	3.15	Moderate
Stream Flow Support	7.28	Higher	3.88	Moderate
Water Cooling	5.87	Higher	3.51	Moderate
Songbird, Raptor, & Mammal Habitat	8.24	Higher	2.22	Lower
Organic Nutrient Export	8.09	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	6.57	Higher
Phosphorus Retention	2.96	Moderate	2.96	Moderate
Nitrate Removal	2.43	Moderate	4.75	Moderate
Resident Fish Habitat	6.51	Moderate	1.15	Lower
Amphibian Habitat	4.61	Moderate	3.53	Lower
Native Plant Habitat	4.58	Moderate	1.60	Lower
Waterbird Nesting Habitat	3.72	Moderate	0.00	Lower
Water Storage	3.19	Moderate	1.11	Lower
Carbon Sequestration	5.11	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.46	Lower	3.81	Moderate
Invertebrate Habitat	2.29	Lower	2.37	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Stressors	N.A.	N.A.	6.35	Moderate
Wetland Risk	N.A.	N.A.	5.71	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.95	Moderate
Public Use & Recognition	N.A.	N.A.	0.39	Lower



Unit maps for WD10 21



Unit maps for WD11 16 19





WD11 • **type:** forested peatland • **acres:** 5.8 • **boundary criteria:** w-u, subsh • **pin:** 3D1301000010
 • no known or probable anadromous fish

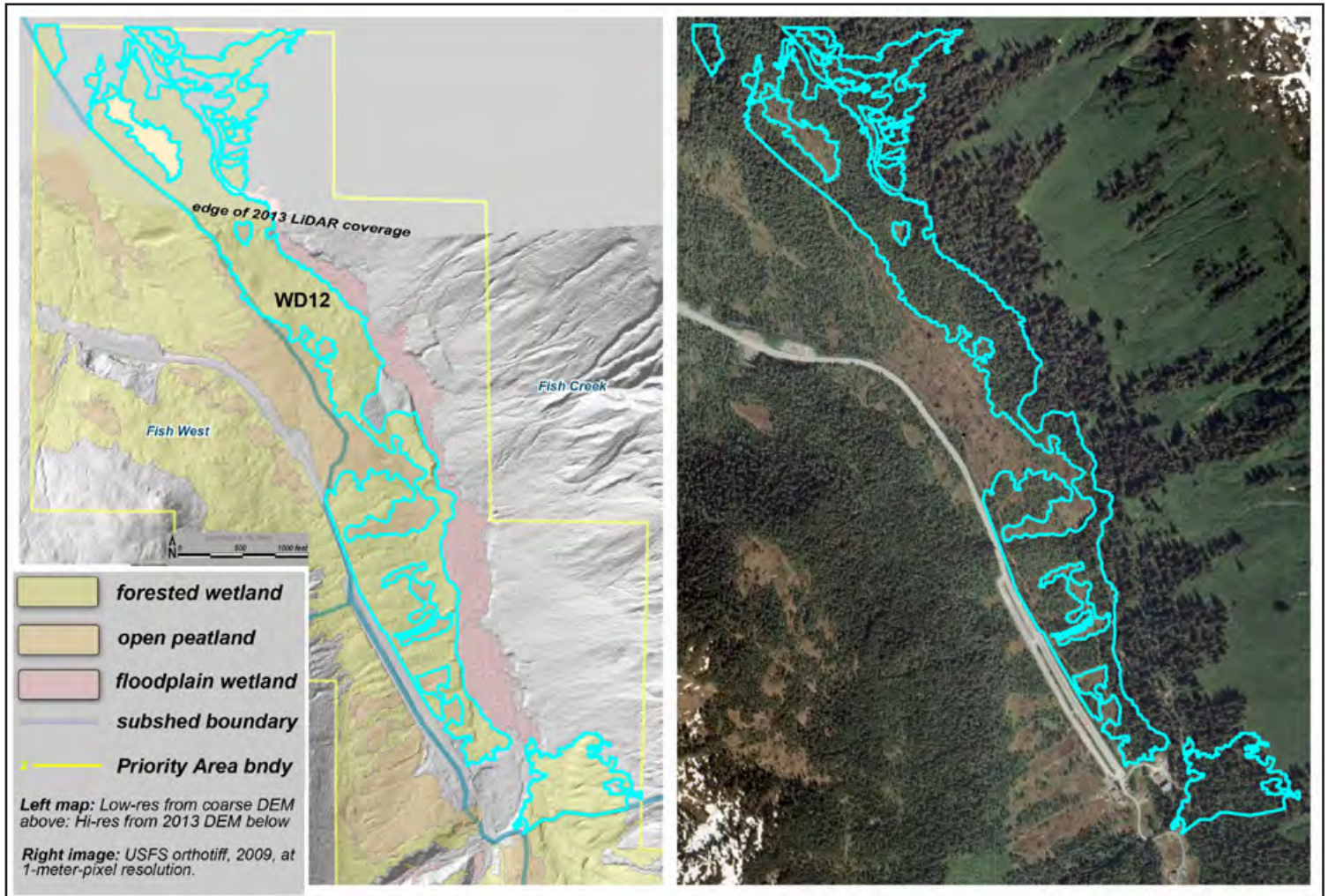
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.21	Higher	3.15	Moderate
Songbird, Raptor, & Mammal Habitat	9.49	Higher	2.22	Lower
Native Plant Habitat	6.52	Higher	1.75	Lower
Water Cooling	5.56	Higher	1.40	Lower
Invertebrate Habitat	5.29	Higher	2.06	Lower
Organic Nutrient Export	8.74	Higher	N.A.	N.A.
Amphibian Habitat	4.55	Moderate	4.58	Moderate
Phosphorus Retention	3.34	Moderate	3.34	Moderate
Water Warming	2.52	Moderate	5.12	Moderate
Sediment Retention & Stabilization	2.38	Moderate	3.86	Moderate
Nitrate Removal	2.21	Moderate	4.75	Moderate
Resident Fish Habitat	6.60	Moderate	2.12	Lower
Water Storage	3.71	Moderate	1.11	Lower
Carbon Sequestration	5.56	Moderate	N.A.	N.A.
Stream Flow Support	2.42	Lower	4.52	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.48	Moderate
Wetland Risk	N.A.	N.A.	4.97	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Ecological Condition	N.A.	N.A.	1.97	Lower
Public Use & Recognition	N.A.	N.A.	1.11	Lower

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WD12 • **type:** forested peatland • **acres:** 85.1 • **boundary criteria:** w-u, pa, type, subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.29	Higher	6.89	Higher
Pollinator Habitat	8.51	Higher	7.85	Higher
Invertebrate Habitat	6.12	Higher	10.00	Higher
Water Cooling	5.56	Higher	3.73	Moderate
Organic Nutrient Export	9.34	Higher	N.A.	N.A.
Resident Fish Habitat	6.11	Moderate	5.96	Higher
Native Plant Habitat	3.26	Moderate	6.95	Higher
Water Warming	2.52	Moderate	7.80	Higher
Stream Flow Support	5.34	Moderate	4.51	Moderate
Amphibian Habitat	3.95	Moderate	5.83	Moderate
Phosphorus Retention	3.62	Moderate	3.62	Moderate
Sediment Retention & Stabilization	2.70	Moderate	2.90	Moderate
Nitrate Removal	2.31	Moderate	4.75	Moderate
Water Storage	4.96	Moderate	1.11	Lower
Waterbird Nesting Habitat	3.99	Moderate	0.00	Lower
Carbon Sequestration	5.84	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.72	Higher
Wetland Stressors	N.A.	N.A.	7.24	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.11	Moderate
Public Use & Recognition	N.A.	N.A.	1.63	Lower



Unit map for WD12

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WD13 • **type:** forested peatland • **acres:** 36.0 • **boundary criteria:** w-u, pa, type, subsh • **pin:** 3D1301000010 • known or probable anadromous fish

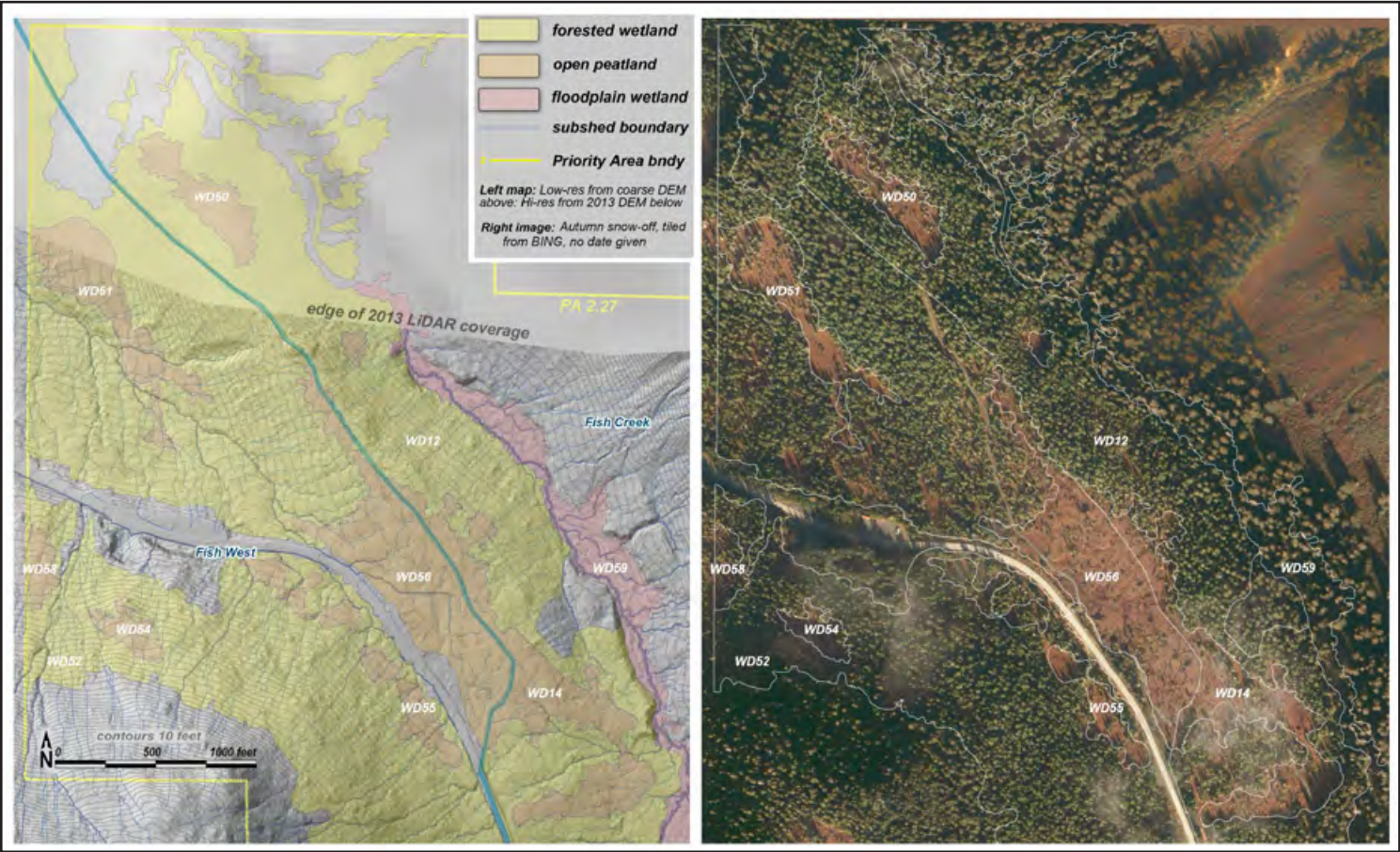
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Organic Nutrient Export	8.19	Higher	N.A.	N.A.
Stream Flow Support	4.79	Moderate	6.50	Higher
Water Cooling	4.21	Moderate	6.18	Higher
Water Warming	2.44	Moderate	6.52	Higher
Pollinator Habitat	6.53	Moderate	3.15	Moderate
Nitrate Removal	2.62	Moderate	4.80	Moderate
Resident Fish Habitat	7.16	Moderate	0.58	Lower
Anadromous Fish Habitat	6.18	Moderate	0.63	Lower
Native Plant Habitat	4.85	Moderate	0.29	Lower
Amphibian Habitat	4.16	Moderate	0.00	Lower
Waterbird Nesting Habitat	4.13	Moderate	0.00	Lower
Water Storage	3.89	Moderate	1.11	Lower
Invertebrate Habitat	3.41	Moderate	2.13	Lower
Carbon Sequestration	4.82	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.52	Lower	2.70	Moderate
Phosphorus Retention	2.53	Lower	2.53	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	5.15	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.85	Lower
Wetland Risk	N.A.	N.A.	2.53	Lower
Public Use & Recognition	N.A.	N.A.	0.26	Lower



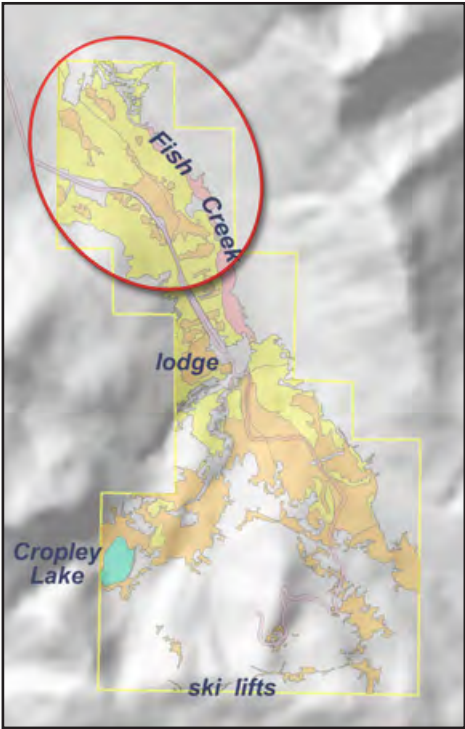
WD14 • type: open peatland • acres: 10.8 • boundary criteria: type, subsh • pin: 3D1021000010
 • known or probable anadromous fish

This is in error - will recalculate tables

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.85	Higher	8.04	Higher
Organic Nutrient Export	8.67	Higher	N.A.	N.A.
Carbon Sequestration	7.06	Higher	N.A.	N.A.
Pollinator Habitat	6.35	Moderate	8.56	Higher
Native Plant Habitat	4.49	Moderate	7.95	Higher
Water Cooling	5.08	Moderate	2.19	Moderate
Anadromous Fish Habitat	5.06	Moderate	4.08	Moderate
Resident Fish Habitat	5.05	Moderate	4.42	Moderate
Water Warming	3.36	Moderate	4.48	Moderate
Water Storage	4.13	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.07	Moderate	0.00	Lower
Stream Flow Support	2.90	Lower	5.09	Higher
Invertebrate Habitat	1.87	Lower	10.00	Higher
Amphibian Habitat	1.82	Lower	6.67	Higher
Nitrate Removal	1.55	Lower	4.75	Moderate
Sediment Retention & Stabilization	1.52	Lower	3.86	Moderate
Phosphorus Retention	2.11	Lower	2.11	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	8.14	Higher
Wetland Ecological Condition	N.A.	N.A.	7.30	Higher
Wetland Stressors	N.A.	N.A.	7.24	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.81	Lower



Unit maps for WD14 50 51 52 54 55 56 58





WD15 • **type:** for. peatland
 • **acres:** 8.5 • **boundary**
criteria: w-u, subsh • **pin:**
 3D1301000010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	6.45	Higher	7.00	Higher
Water Warming	5.46	Higher	5.95	Higher
Nitrate Removal	3.57	Higher	7.45	Higher
Anadromous Fish Habitat	9.09	Higher	1.75	Lower
Resident Fish Habitat	7.52	Higher	1.73	Lower
Organic Nutrient Export	8.68	Higher	N.A.	N.A.
Stream Flow Support	5.71	Moderate	7.59	Higher
Water Storage	2.95	Moderate	10.00	Higher
Pollinator Habitat	5.88	Moderate	3.26	Moderate
Songbird, Raptor, & Mammal Habitat	5.33	Moderate	3.33	Moderate
Sediment Retention & Stabilization	2.34	Moderate	4.04	Moderate
Native Plant Habitat	3.39	Moderate	0.43	Lower
Carbon Sequestration	4.00	Moderate	N.A.	N.A.
Invertebrate Habitat	3.11	Lower	2.77	Lower
Amphibian Habitat	2.71	Lower	1.67	Lower
Phosphorus Retention	2.16	Lower	2.16	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	3.30	Moderate
Wetland Stressors	N.A.	N.A.	2.74	Lower
Wetland Sensitivity	N.A.	N.A.	2.29	Lower
Wetland Risk	N.A.	N.A.	1.59	Lower
Public Use & Recognition	N.A.	N.A.	0.95	Lower

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WD16 • type: for. peatland •
 acres: 1.1 • boundary criteria:
 w-u, subsh • pin: 3D1301000010
 • known or probable anadromous
 fish

error -change fish score in table

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	7.89	Higher	2.18	Moderate
Pollinator Habitat	7.46	Higher	3.15	Moderate
Songbird, Raptor, & Mammal Habitat	8.34	Higher	2.22	Lower
Native Plant Habitat	7.62	Higher	1.36	Lower
Amphibian Habitat	5.40	Higher	3.61	Lower
Organic Nutrient Export	8.64	Higher	N.A.	N.A.
Stream Flow Support	3.39	Moderate	6.33	Higher
Water Warming	4.62	Moderate	3.88	Moderate
Nitrate Removal	2.62	Moderate	4.75	Moderate
Resident Fish Habitat	6.65	Moderate	1.15	Lower
Anadromous Fish Habitat	5.51	Moderate	1.25	Lower
Invertebrate Habitat	4.58	Moderate	2.85	Lower
Water Storage	3.43	Moderate	1.11	Lower
Carbon Sequestration	4.95	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.73	Lower	3.86	Moderate
Phosphorus Retention	2.00	Lower	2.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.43	Moderate
Wetland Risk	N.A.	N.A.	5.98	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.40	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower



WD17 • **type:** for. peatland
 • **acres:** 2.1 • **boundary**
criteria: w-u, pa, subsh • **pin:**
 3D1301000010 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.77	Higher	4.06	Moderate
Water Cooling	5.87	Higher	3.07	Moderate
Native Plant Habitat	5.28	Higher	0.29	Lower
Organic Nutrient Export	8.11	Higher	N.A.	N.A.
Pollinator Habitat	5.45	Moderate	3.15	Moderate
Water Warming	4.12	Moderate	5.40	Moderate
Phosphorus Retention	2.72	Moderate	2.72	Moderate
Nitrate Removal	2.53	Moderate	5.00	Moderate
Resident Fish Habitat	6.90	Moderate	1.15	Lower
Songbird, Raptor, & Mammal Habitat	6.70	Moderate	2.22	Lower
Amphibian Habitat	4.23	Moderate	2.25	Lower
Waterbird Nesting Habitat	3.69	Moderate	0.00	Lower
Water Storage	3.18	Moderate	0.56	Lower
Carbon Sequestration	4.30	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.26	Lower	2.87	Moderate
Invertebrate Habitat	2.53	Lower	2.13	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.34	Moderate
Wetland Stressors	N.A.	N.A.	2.90	Lower
Wetland Risk	N.A.	N.A.	1.79	Lower
Public Use & Recognition	N.A.	N.A.	0.39	Lower

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WD18 • **type:** forested peatland • **acres:** 1.9 • **boundary criteria:** type • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.81	Higher	3.33	Moderate
Pollinator Habitat	7.33	Higher	3.26	Moderate
Stream Flow Support	6.72	Higher	3.88	Moderate
Water Cooling	5.56	Higher	3.07	Moderate
Organic Nutrient Export	7.85	Higher	N.A.	N.A.
Carbon Sequestration	7.02	Higher	N.A.	N.A.
Water Warming	4.62	Moderate	5.85	Higher
Water Storage	3.68	Moderate	10.00	Higher
Nitrate Removal	1.98	Moderate	5.13	Moderate
Resident Fish Habitat	6.69	Moderate	1.73	Lower
Native Plant Habitat	4.49	Moderate	1.11	Lower
Sediment Retention & Stabilization	1.26	Lower	2.77	Moderate
Phosphorus Retention	2.20	Lower	2.20	Lower
Invertebrate Habitat	1.99	Lower	1.51	Lower
Amphibian Habitat	1.87	Lower	3.18	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.86	Lower
Wetland Stressors	N.A.	N.A.	2.74	Lower
Wetland Risk	N.A.	N.A.	1.40	Lower
Public Use & Recognition	N.A.	N.A.	0.95	Lower



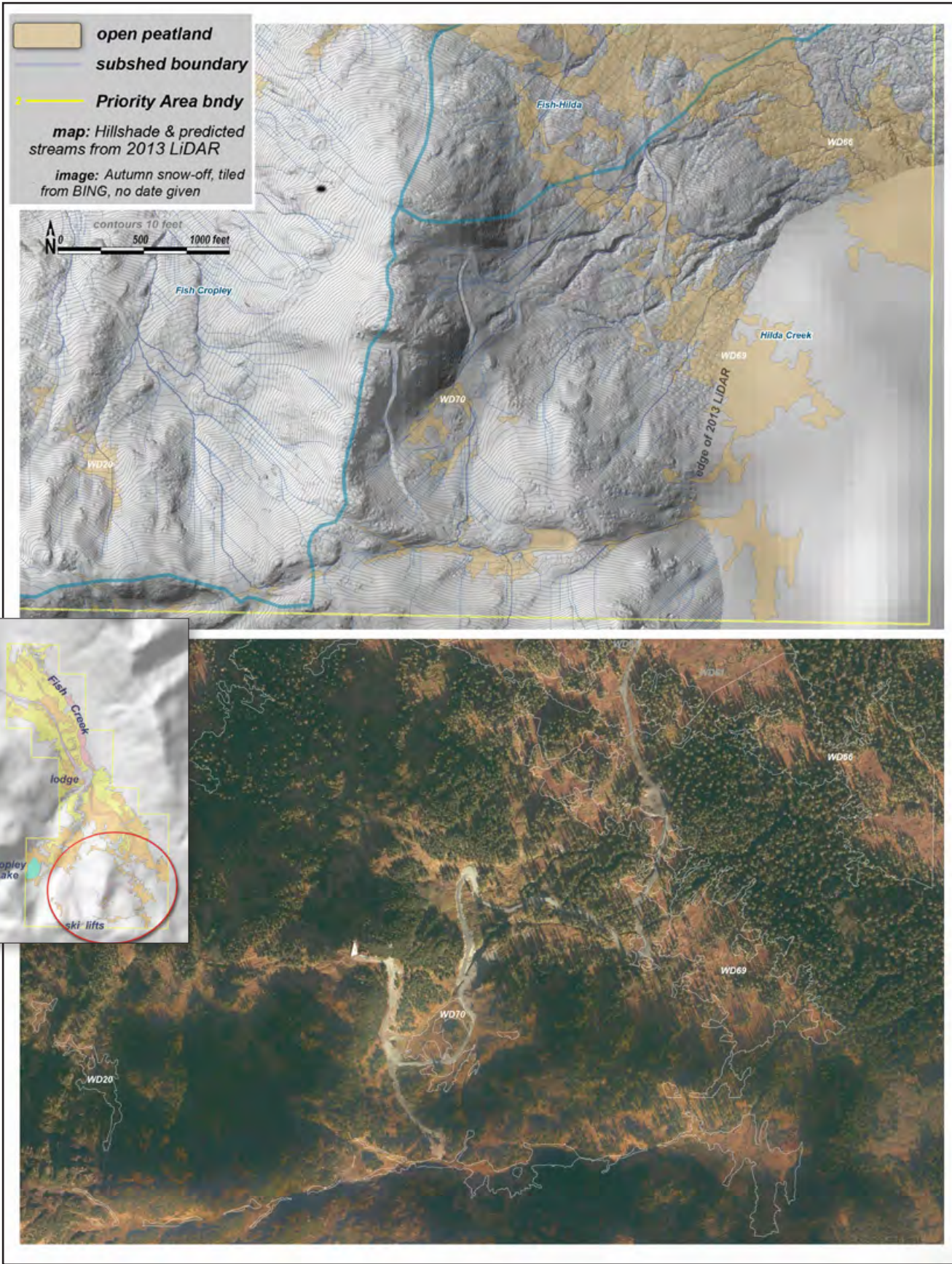
WD19 • **type:** forested peatland • **acres:** 68.9 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.49	Higher	3.15	Moderate
Water Cooling	7.47	Higher	3.07	Moderate
Stream Flow Support	6.52	Higher	4.58	Moderate
Songbird, Raptor, & Mammal Habitat	8.43	Higher	2.22	Lower
Resident Fish Habitat	7.56	Higher	1.15	Lower
Native Plant Habitat	7.45	Higher	1.67	Lower
Amphibian Habitat	5.57	Higher	3.69	Lower
Organic Nutrient Export	8.88	Higher	N.A.	N.A.
Water Warming	2.61	Moderate	6.32	Higher
Phosphorus Retention	3.16	Moderate	3.16	Moderate
Nitrate Removal	2.62	Moderate	4.75	Moderate
Sediment Retention & Stabilization	2.56	Moderate	3.86	Moderate
Waterbird Nesting Habitat	4.70	Moderate	0.00	Lower
Water Storage	4.04	Moderate	1.11	Lower
Invertebrate Habitat	4.00	Moderate	2.80	Lower
Carbon Sequestration	5.47	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.43	Moderate
Wetland Risk	N.A.	N.A.	5.60	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.52	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.90	Lower



WD20 • **type:** open peatland • **acres:** 1.7 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	8.40	Higher	7.13	Higher
Pollinator Habitat	8.78	Higher	3.19	Moderate
Water Cooling	8.43	Higher	1.36	Lower
Invertebrate Habitat	6.93	Higher	0.93	Lower
Organic Nutrient Export	9.02	Higher	N.A.	N.A.
Stream Flow Support	4.47	Moderate	6.43	Higher
Nitrate Removal	2.48	Moderate	7.31	Higher
Songbird, Raptor, & Mammal Habitat	6.63	Moderate	4.04	Moderate
Native Plant Habitat	5.04	Moderate	1.04	Lower
Waterbird Feeding Habitat	4.22	Moderate	0.00	Lower
Carbon Sequestration	5.18	Moderate	N.A.	N.A.
Amphibian Habitat	2.50	Lower	5.07	Moderate
Sediment Retention & Stabilization	1.52	Lower	4.44	Moderate
Water Storage	1.68	Lower	2.59	Lower
Phosphorus Retention	1.28	Lower	1.28	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	10.00	Higher
Wetland Risk	N.A.	N.A.	6.84	Higher
Wetland Stressors	N.A.	N.A.	6.85	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.31	Moderate
Public Use & Recognition	N.A.	N.A.	2.54	Moderate



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WD21 • **type:** forested peatland • **acres:** 26.8 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	9.12	Higher	3.15	Moderate
Stream Flow Support	6.77	Higher	3.98	Moderate
Water Cooling	5.87	Higher	3.07	Moderate
Songbird, Raptor, & Mammal Habitat	8.07	Higher	2.22	Lower
Native Plant Habitat	5.72	Higher	1.71	Lower
Organic Nutrient Export	8.78	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	6.21	Higher
Phosphorus Retention	2.67	Moderate	2.67	Moderate
Nitrate Removal	2.05	Moderate	4.75	Moderate
Resident Fish Habitat	6.72	Moderate	1.15	Lower
Amphibian Habitat	4.66	Moderate	3.39	Lower
Carbon Sequestration	5.11	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.59	Lower	3.81	Moderate
Water Storage	2.69	Lower	1.11	Lower
Invertebrate Habitat	2.42	Lower	1.87	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Stressors	N.A.	N.A.	6.35	Moderate
Wetland Risk	N.A.	N.A.	5.35	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.15	Lower
Public Use & Recognition	N.A.	N.A.	0.51	Lower



WD40 • **type:** forested peatland • **acres:** 29.6 • **boundary criteria:** w-u, pa, type • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.07	Higher	3.33	Moderate
Stream Flow Support	7.48	Higher	1.80	Moderate
Water Cooling	6.26	Higher	3.51	Moderate
Native Plant Habitat	5.66	Higher	1.02	Lower
Organic Nutrient Export	8.17	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	7.14	Higher
Pollinator Habitat	6.61	Moderate	3.26	Moderate
Phosphorus Retention	3.50	Moderate	3.50	Moderate
Nitrate Removal	1.92	Moderate	4.75	Moderate
Water Storage	3.49	Moderate	1.11	Lower
Amphibian Habitat	3.18	Moderate	3.39	Lower
Waterbird Nesting Habitat	3.11	Moderate	0.00	Lower
Carbon Sequestration	4.64	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.13	Lower	3.81	Moderate
Invertebrate Habitat	2.89	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.77	Moderate
Wetland Risk	N.A.	N.A.	5.47	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.40	Lower
Public Use & Recognition	N.A.	N.A.	2.27	Lower
Wetland Sensitivity	N.A.	N.A.	2.20	Lower

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WD42 • **type:** fen/marsh • **acres:** 1.5 • **boundary criteria:** type • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	6.62	Higher	7.55	Higher
Waterbird Nesting Habitat	6.11	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	7.52	Higher	4.93	Moderate
Waterbird Feeding Habitat	6.76	Higher	4.94	Moderate
Water Warming	5.88	Higher	4.78	Moderate
Sediment Retention & Stabilization	5.00	Higher	2.70	Moderate
Nitrate Removal	3.76	Higher	4.80	Moderate
Water Storage	6.99	Higher	1.11	Lower
Native Plant Habitat	5.81	Higher	0.43	Lower
Carbon Sequestration	6.45	Higher	N.A.	N.A.
Phosphorus Retention	3.50	Moderate	3.50	Moderate
Invertebrate Habitat	4.86	Moderate	2.71	Lower
Water Cooling	3.58	Moderate	1.40	Lower
Organic Nutrient Export	7.47	Moderate	N.A.	N.A.
Pollinator Habitat	3.66	Lower	3.26	Moderate
Stream Flow Support	2.77	Lower	2.20	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.64	Moderate
Wetland Risk	N.A.	N.A.	5.84	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.56	Moderate
Public Use & Recognition	N.A.	N.A.	2.48	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower



WD45 • **type:** fen/marsh •
acres: 2.0 • **boundary criteria:**
 type • **pin:** 3D1301000010 •
 known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.48	Higher	6.14	Higher
Waterbird Nesting Habitat	6.01	Higher	10.00	Higher
Water Storage	5.38	Higher	10.00	Higher
Nitrate Removal	4.10	Higher	6.77	Higher
Phosphorus Retention	4.04	Higher	4.04	Higher
Waterbird Feeding Habitat	7.80	Higher	5.00	Moderate
Anadromous Fish Habitat	7.59	Higher	5.32	Moderate
Amphibian Habitat	5.86	Higher	6.04	Moderate
Sediment Retention & Stabilization	4.36	Higher	2.80	Moderate
Water Cooling	5.11	Moderate	2.72	Moderate
Invertebrate Habitat	5.04	Moderate	4.81	Moderate
Songbird, Raptor, & Mammal Habitat	4.86	Moderate	5.00	Moderate
Water Warming	3.70	Moderate	5.24	Moderate
Native Plant Habitat	4.61	Moderate	0.57	Lower
Organic Nutrient Export	7.41	Moderate	N.A.	N.A.
Carbon Sequestration	5.08	Moderate	N.A.	N.A.
Stream Flow Support	3.03	Lower	7.77	Higher
Pollinator Habitat	3.95	Lower	3.36	Moderate
Wetland Stressors	N.A.	N.A.	5.78	Moderate
Wetland Risk	N.A.	N.A.	5.04	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.80	Moderate
Public Use & Recognition	N.A.	N.A.	2.51	Moderate
Wetland Sensitivity	N.A.	N.A.	2.83	Lower



WD50 • **type:** open peatland • **acres:** 3.2 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.09	Higher	5.39	Moderate
Pollinator Habitat	7.21	Higher	4.25	Moderate
Invertebrate Habitat	5.64	Higher	1.88	Lower
Organic Nutrient Export	7.79	Higher	N.A.	N.A.
Carbon Sequestration	7.00	Higher	N.A.	N.A.
Waterbird Feeding Habitat	3.94	Moderate	6.23	Higher
Waterbird Nesting Habitat	4.34	Moderate	9.50	Moderate
Water Warming	3.36	Moderate	4.93	Moderate
Nitrate Removal	2.21	Moderate	4.75	Moderate
Water Storage	4.62	Moderate	1.11	Lower
Water Cooling	3.93	Moderate	1.58	Lower
Amphibian Habitat	2.41	Lower	6.94	Higher
Stream Flow Support	3.15	Lower	2.36	Moderate
Sediment Retention & Stabilization	1.72	Lower	3.86	Moderate
Native Plant Habitat	0.97	Lower	2.60	Moderate
Phosphorus Retention	2.56	Lower	2.56	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	5.58	Moderate
Wetland Risk	N.A.	N.A.	5.44	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.19	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.19	Lower



WD51 • **type:** open peat-
land • **acres:** 6.1 • **bound-
ary criteria:** type, pa • **pin:**
3D1021000010 • no known or
probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	6.16	Higher	5.89	Higher
Songbird, Raptor, & Mammal Habitat	8.66	Higher	5.39	Moderate
Stream Flow Support	8.49	Higher	2.14	Moderate
Water Cooling	5.84	Higher	3.51	Moderate
Organic Nutrient Export	9.42	Higher	N.A.	N.A.
Carbon Sequestration	6.31	Higher	N.A.	N.A.
Nitrate Removal	2.30	Moderate	4.75	Moderate
Invertebrate Habitat	4.58	Moderate	1.13	Lower
Water Storage	3.67	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.54	Moderate	0.00	Lower
Pollinator Habitat	2.76	Lower	4.25	Moderate
Native Plant Habitat	2.50	Lower	2.67	Moderate
Amphibian Habitat	2.18	Lower	6.30	Moderate
Sediment Retention & Stabilization	1.75	Lower	3.86	Moderate
Phosphorus Retention	2.35	Lower	2.35	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.80	Moderate
Wetland Risk	N.A.	N.A.	6.00	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.53	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.66	Lower



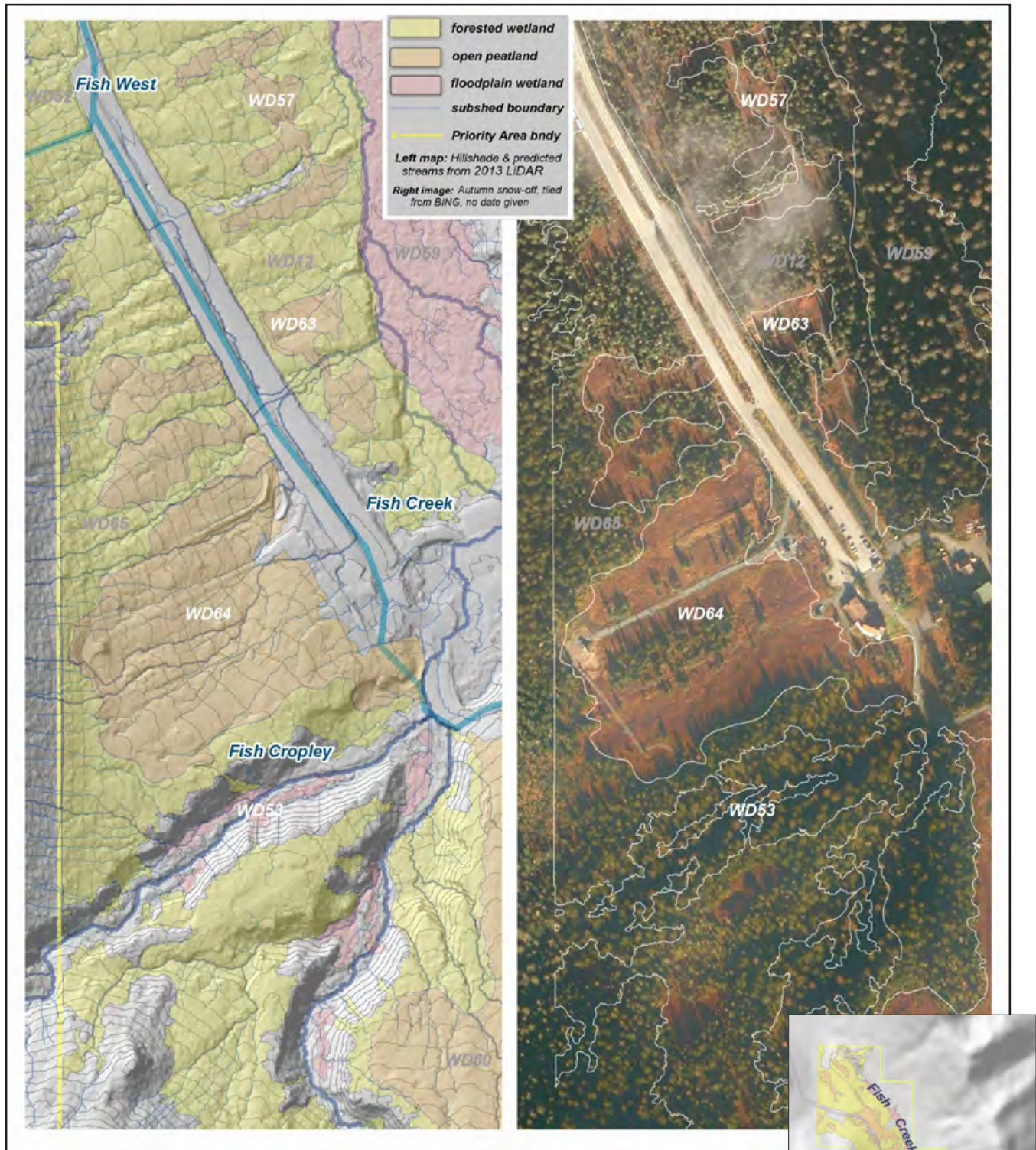
WD52 • **type:** forested
 peatland • **acres:** 92.5 •
boundary criteria: w-u,
 pa, type, subsh • **pin:**
 3D1021000010 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.99	Higher	4.21	Moderate
Songbird, Raptor, & Mammal Habitat	7.98	Higher	3.33	Moderate
Organic Nutrient Export	9.34	Higher	N.A.	N.A.
Water Warming	2.94	Moderate	7.16	Higher
Stream Flow Support	4.84	Moderate	1.78	Moderate
Water Cooling	4.66	Moderate	3.95	Moderate
Native Plant Habitat	3.99	Moderate	2.52	Moderate
Phosphorus Retention	3.58	Moderate	3.58	Moderate
Amphibian Habitat	3.31	Moderate	3.31	Lower
Carbon Sequestration	5.41	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.36	Lower	4.21	Moderate
Nitrate Removal	0.92	Lower	4.75	Moderate
Invertebrate Habitat	2.78	Lower	0.68	Lower
Water Storage	2.21	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Risk	N.A.	N.A.	6.74	Higher
Wetland Stressors	N.A.	N.A.	7.48	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.59	Moderate
Public Use & Recognition	N.A.	N.A.	3.58	Moderate

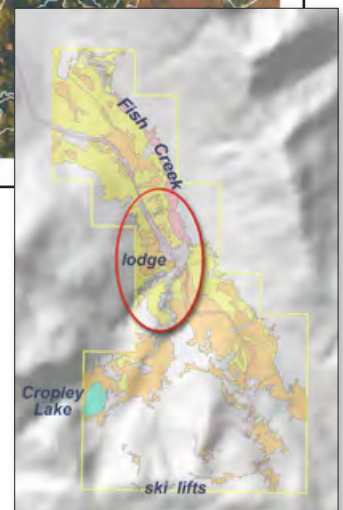


WD53 • **type:** floodplain wetland • **acres:** 1.9 • **boundary criteria:** w-u, type • **pin:** 3D1021000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Nitrate Removal	4.31	Higher	7.15	Higher
Water Cooling	7.54	Higher	3.95	Moderate
Waterbird Nesting Habitat	5.99	Higher	9.40	Moderate
Native Plant Habitat	5.88	Higher	2.52	Moderate
Water Warming	4.96	Higher	3.48	Moderate
Invertebrate Habitat	7.41	Higher	1.46	Lower
Water Storage	5.41	Higher	0.56	Lower
Organic Nutrient Export	8.53	Higher	N.A.	N.A.
Pollinator Habitat	5.53	Moderate	4.21	Moderate
Waterbird Feeding Habitat	5.28	Moderate	5.21	Moderate
Stream Flow Support	5.16	Moderate	2.71	Moderate
Songbird, Raptor, & Mammal Habitat	4.49	Moderate	5.36	Moderate
Sediment Retention & Stabilization	4.09	Moderate	3.99	Moderate
Amphibian Habitat	1.69	Lower	4.01	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Phosphorus Retention	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	1.79	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.55	Higher
Public Use & Recognition	N.A.	N.A.	6.18	Higher
Wetland Stressors	N.A.	N.A.	7.12	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.02	Moderate



Unit maps for WD53 57 63 64





WD54 • **type:** open peatland
 • **acres:** 1.3 • **boundary criteria:** type • **pin:** 3D1021000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.48	Higher	6.14	Higher
Waterbird Nesting Habitat	6.01	Higher	10.00	Higher
Water Storage	5.38	Higher	10.00	Higher
Nitrate Removal	4.10	Higher	6.77	Higher
Phosphorus Retention	4.04	Higher	4.04	Higher
Waterbird Feeding Habitat	7.80	Higher	5.00	Moderate
Anadromous Fish Habitat	7.59	Higher	5.32	Moderate
Amphibian Habitat	5.86	Higher	6.04	Moderate
Sediment Retention & Stabilization	4.36	Higher	2.80	Moderate
Water Cooling	5.11	Moderate	2.72	Moderate
Invertebrate Habitat	5.04	Moderate	4.81	Moderate
Songbird, Raptor, & Mammal Habitat	4.86	Moderate	5.00	Moderate
Water Warming	3.70	Moderate	5.24	Moderate
Native Plant Habitat	4.61	Moderate	0.57	Lower
Organic Nutrient Export	7.41	Moderate	N.A.	N.A.
Carbon Sequestration	5.08	Moderate	N.A.	N.A.
Stream Flow Support	3.03	Lower	7.77	Higher
Pollinator Habitat	3.95	Lower	3.36	Moderate
Wetland Stressors	N.A.	N.A.	5.78	Moderate
Wetland Risk	N.A.	N.A.	5.04	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.80	Moderate
Public Use & Recognition	N.A.	N.A.	2.51	Moderate
Wetland Sensitivity	N.A.	N.A.	2.83	Lower

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WD55 • **type:** open peatland
 • **acres:** 3.8 • **boundary criteria:** type • **pin:** 3D1021000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.57	Higher	5.39	Moderate
Water Warming	6.16	Higher	4.89	Moderate
Water Cooling	5.84	Higher	1.58	Lower
Organic Nutrient Export	8.45	Higher	N.A.	N.A.
Carbon Sequestration	6.53	Higher	N.A.	N.A.
Stream Flow Support	4.50	Moderate	1.96	Moderate
Phosphorus Retention	2.92	Moderate	2.92	Moderate
Nitrate Removal	2.82	Moderate	4.75	Moderate
Water Storage	3.82	Moderate	1.11	Lower
Invertebrate Habitat	3.69	Moderate	1.08	Lower
Waterbird Feeding Habitat	3.40	Moderate	0.00	Lower
Pollinator Habitat	2.76	Lower	4.25	Moderate
Amphibian Habitat	2.00	Lower	6.13	Moderate
Sediment Retention & Stabilization	1.44	Lower	3.86	Moderate
Native Plant Habitat	1.25	Lower	2.64	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.19	Moderate
Wetland Risk	N.A.	N.A.	5.52	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.92	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.18	Lower



WD56 • **type:** open peatland • **acres:** 12.9 • **boundary criteria:** w-u, type subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.41	Higher	5.39	Moderate
Amphibian Habitat	5.49	Higher	5.87	Moderate
Water Storage	5.07	Higher	5.00	Moderate
Carbon Sequestration	7.29	Higher	N.A.	N.A.
Waterbird Feeding Habitat	4.44	Moderate	7.23	Higher
Pollinator Habitat	4.98	Moderate	4.25	Moderate
Waterbird Nesting Habitat	4.10	Moderate	9.50	Moderate
Phosphorus Retention	3.57	Moderate	3.57	Moderate
Sediment Retention & Stabilization	2.61	Moderate	2.68	Moderate
Nitrate Removal	1.92	Moderate	4.24	Moderate
Water Warming	3.82	Moderate	2.05	Lower
Water Cooling	3.10	Moderate	1.23	Lower
Organic Nutrient Export	7.37	Moderate	N.A.	N.A.
Stream Flow Support	2.77	Lower	1.75	Moderate
Native Plant Habitat	0.00	Lower	2.60	Moderate
Invertebrate Habitat	2.61	Lower	1.98	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.49	Higher
Wetland Ecological Condition	N.A.	N.A.	6.15	Higher
Wetland Stressors	N.A.	N.A.	6.17	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	2.27	Lower

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WD57 • **type:** open peatland • **acres:** 2.2 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.05	Higher	1.85	Moderate
Carbon Sequestration	8.53	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.13	Moderate	5.39	Moderate
Water Cooling	4.60	Moderate	3.16	Moderate
Waterbird Feeding Habitat	3.71	Moderate	4.23	Moderate
Phosphorus Retention	3.44	Moderate	3.44	Moderate
Nitrate Removal	2.26	Moderate	1.72	Lower
Pollinator Habitat	2.75	Lower	4.25	Moderate
Native Plant Habitat	2.56	Lower	2.60	Moderate
Invertebrate Habitat	3.13	Lower	0.57	Lower
Amphibian Habitat	2.02	Lower	3.48	Lower
Water Storage	1.46	Lower	1.11	Lower
Sediment Retention & Stabilization	1.42	Lower	0.28	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.64	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.05	Moderate
Wetland Risk	N.A.	N.A.	5.33	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.82	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.16	Lower



WD58 • **type:** open peatland • **acres:** 1.3 • **boundary criteria:** type, pa • **pin:** 3D1021000010 • no known or probable anadromous fish

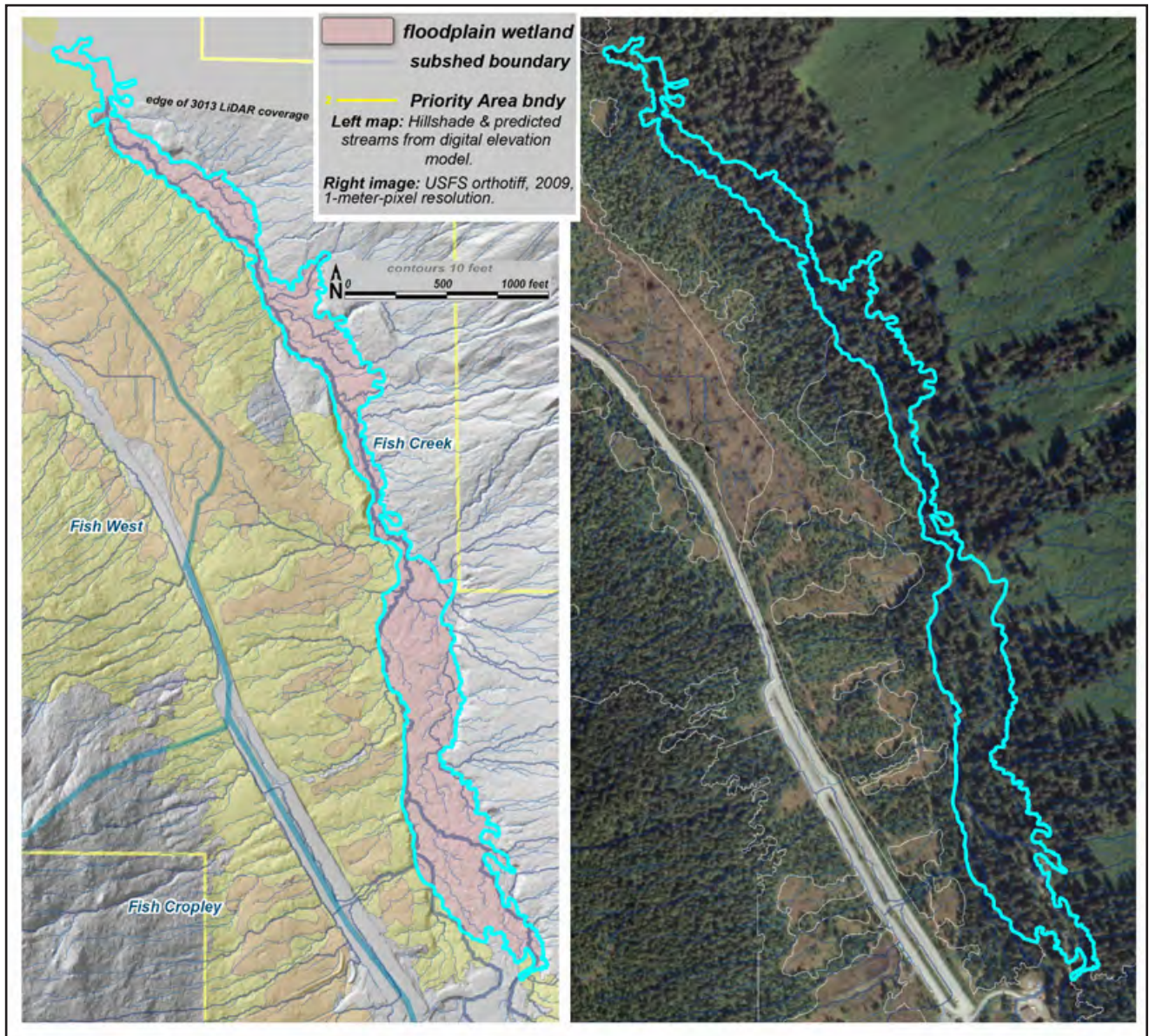
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	6.16	Higher	5.86	Higher
Songbird, Raptor, & Mammal Habitat	8.82	Higher	5.39	Moderate
Stream Flow Support	8.49	Higher	2.12	Moderate
Pollinator Habitat	8.20	Higher	4.25	Moderate
Water Cooling	6.99	Higher	3.51	Moderate
Native Plant Habitat	5.67	Higher	2.60	Moderate
Organic Nutrient Export	8.81	Higher	N.A.	N.A.
Invertebrate Habitat	4.45	Moderate	1.15	Lower
Waterbird Feeding Habitat	3.64	Moderate	0.00	Lower
Water Storage	3.59	Moderate	1.11	Lower
Carbon Sequestration	5.26	Moderate	N.A.	N.A.
Amphibian Habitat	2.00	Lower	6.50	Higher
Sediment Retention & Stabilization	1.52	Lower	3.91	Moderate
Nitrate Removal	1.47	Lower	5.15	Moderate
Phosphorus Retention	2.24	Lower	2.24	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	7.43	Higher
Wetland Stressors	N.A.	N.A.	7.25	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.70	Moderate
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Public Use & Recognition	N.A.	N.A.	1.83	Lower

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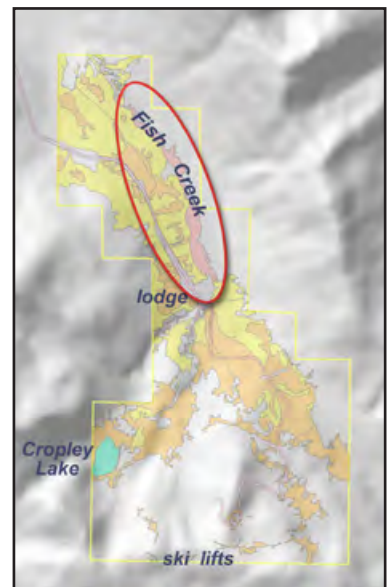


WD59 • **type:** floodplain wetland • **acres:** 24.5 • **boundary criteria:** w-u, type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	4.87	Higher	5.75	Higher
Nitrate Removal	3.32	Higher	5.76	Higher
Pollinator Habitat	8.57	Higher	4.21	Moderate
Songbird, Raptor, & Mammal Habitat	8.45	Higher	5.36	Moderate
Stream Flow Support	6.32	Higher	2.64	Moderate
Waterbird Nesting Habitat	5.89	Higher	9.40	Moderate
Water Storage	5.14	Higher	5.56	Moderate
Invertebrate Habitat	7.03	Higher	2.06	Lower
Organic Nutrient Export	9.44	Higher	N.A.	N.A.
Waterbird Feeding Habitat	5.49	Moderate	6.21	Higher
Water Cooling	4.85	Moderate	3.51	Moderate
Native Plant Habitat	4.63	Moderate	2.52	Moderate
Sediment Retention & Stabilization	3.42	Moderate	4.38	Moderate
Phosphorus Retention	2.63	Moderate	2.63	Moderate
Amphibian Habitat	1.16	Lower	7.46	Higher
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	3.66	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.46	Higher
Wetland Stressors	N.A.	N.A.	6.74	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.72	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.14	Lower



Unit map for WD59

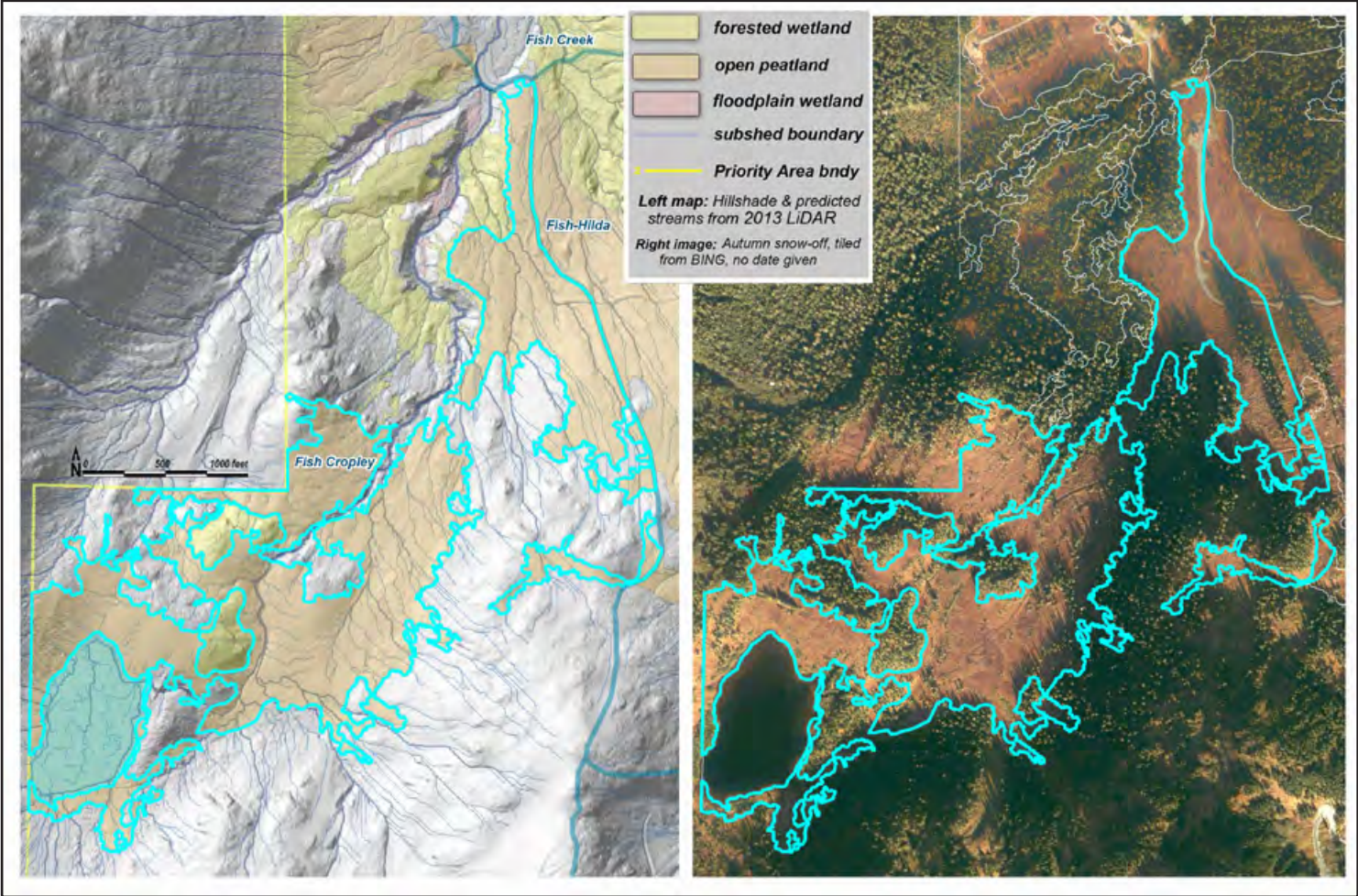


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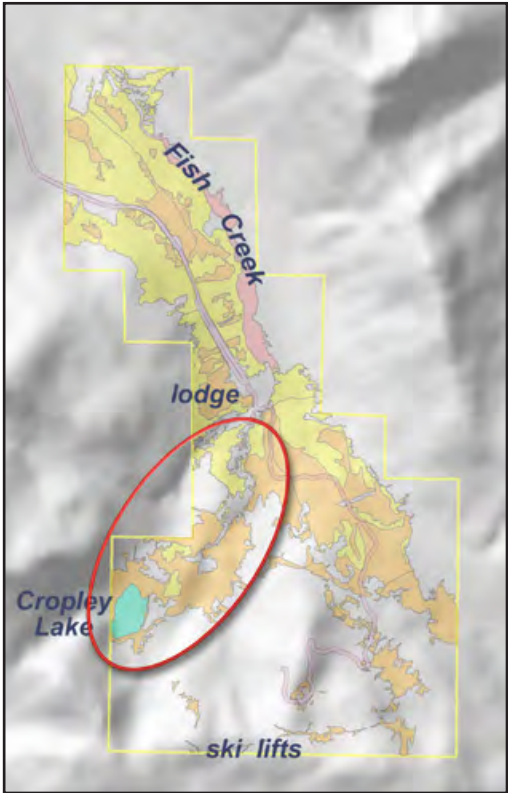


WD60 • **type:** open peatland • **acres:** 88.8 • **boundary criteria:** w-u, pa, type, subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.66	Higher	2.54	Moderate
Nitrate Removal	3.28	Higher	3.86	Moderate
Invertebrate Habitat	6.54	Higher	0.59	Lower
Organic Nutrient Export	7.96	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.75	Moderate	5.39	Moderate
Pollinator Habitat	5.39	Moderate	4.25	Moderate
Water Cooling	4.60	Moderate	3.68	Moderate
Phosphorus Retention	3.57	Moderate	3.57	Moderate
Sediment Retention & Stabilization	3.77	Moderate	0.63	Lower
Waterbird Feeding Habitat	3.10	Moderate	0.00	Lower
Native Plant Habitat	2.00	Lower	2.60	Moderate
Amphibian Habitat	2.04	Lower	3.58	Lower
Water Storage	0.63	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	3.81	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	7.53	Higher
Wetland Stressors	N.A.	N.A.	6.72	Moderate
Wetland Risk	N.A.	N.A.	5.90	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.49	Moderate
Public Use & Recognition	N.A.	N.A.	1.64	Lower



Unit map for WD60

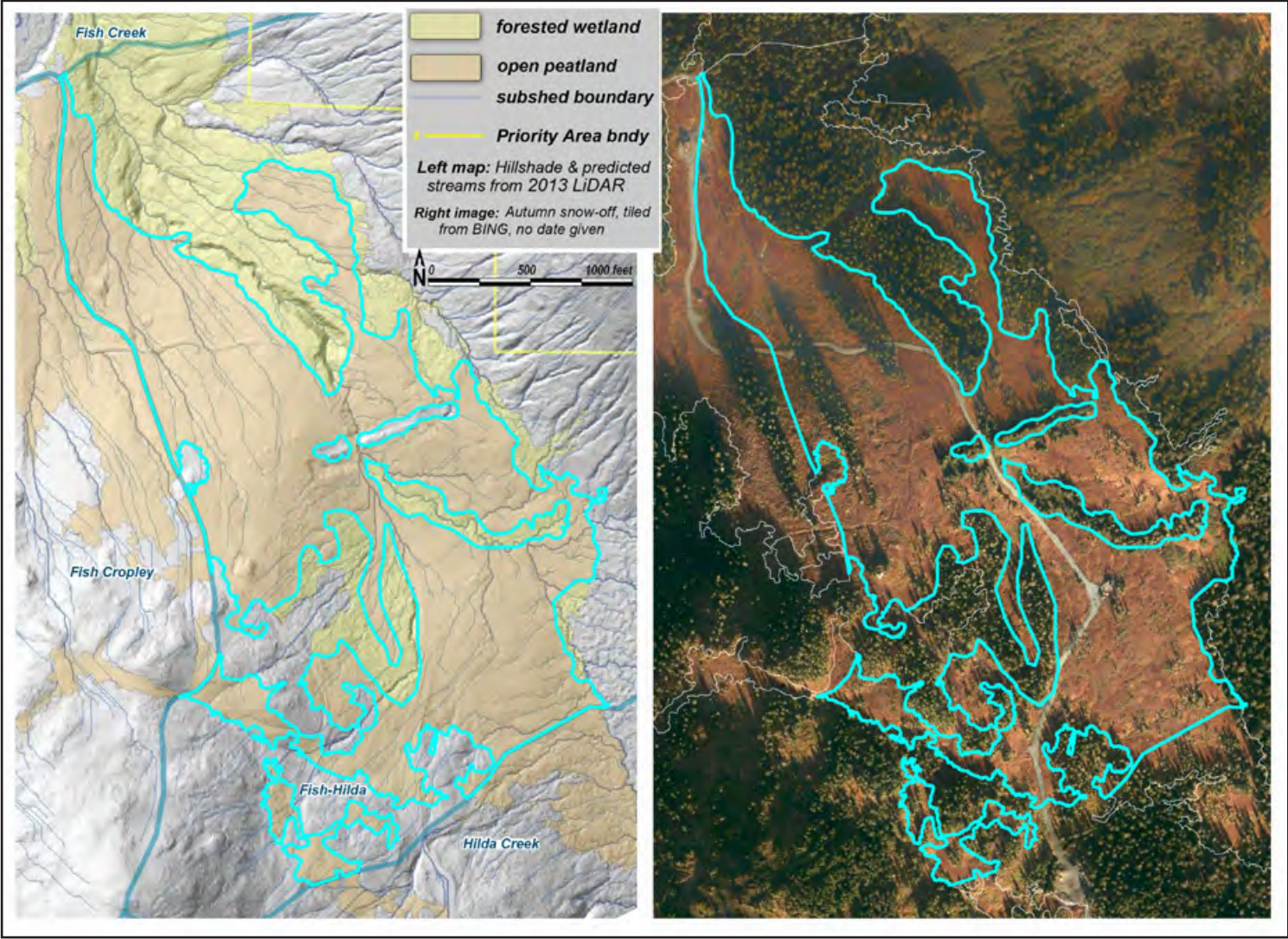


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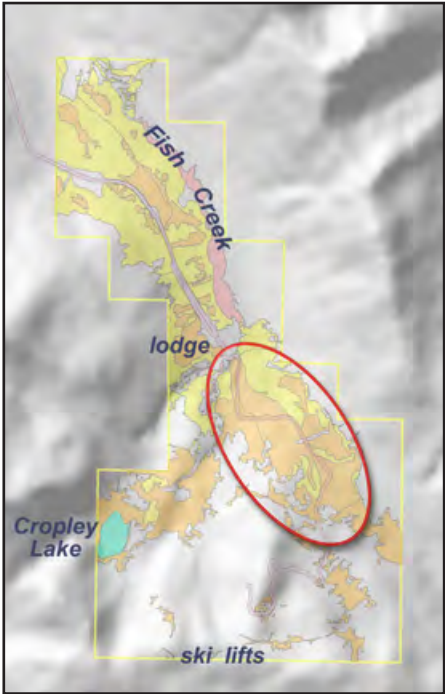


WD61 • **type:** open peatland • **acres:** 86.5 • **boundary criteria:** w-u, type, subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.50	Higher	3.33	Moderate
Invertebrate Habitat	6.17	Higher	0.72	Lower
Organic Nutrient Export	8.37	Higher	N.A.	N.A.
Water Warming	2.52	Moderate	7.11	Higher
Pollinator Habitat	6.08	Moderate	4.25	Moderate
Stream Flow Support	5.34	Moderate	2.46	Moderate
Water Cooling	4.41	Moderate	3.95	Moderate
Phosphorus Retention	3.26	Moderate	3.26	Moderate
Water Storage	3.58	Moderate	1.11	Lower
Amphibian Habitat	2.92	Moderate	3.75	Lower
Sediment Retention & Stabilization	2.26	Lower	3.98	Moderate
Nitrate Removal	1.61	Lower	4.75	Moderate
Native Plant Habitat	0.09	Lower	3.30	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.62	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	6.35	Moderate
Wetland Risk	N.A.	N.A.	4.63	Moderate
Public Use & Recognition	N.A.	N.A.	2.16	Lower
Wetland Ecological Condition	N.A.	N.A.	1.52	Lower



Unit map for WD61

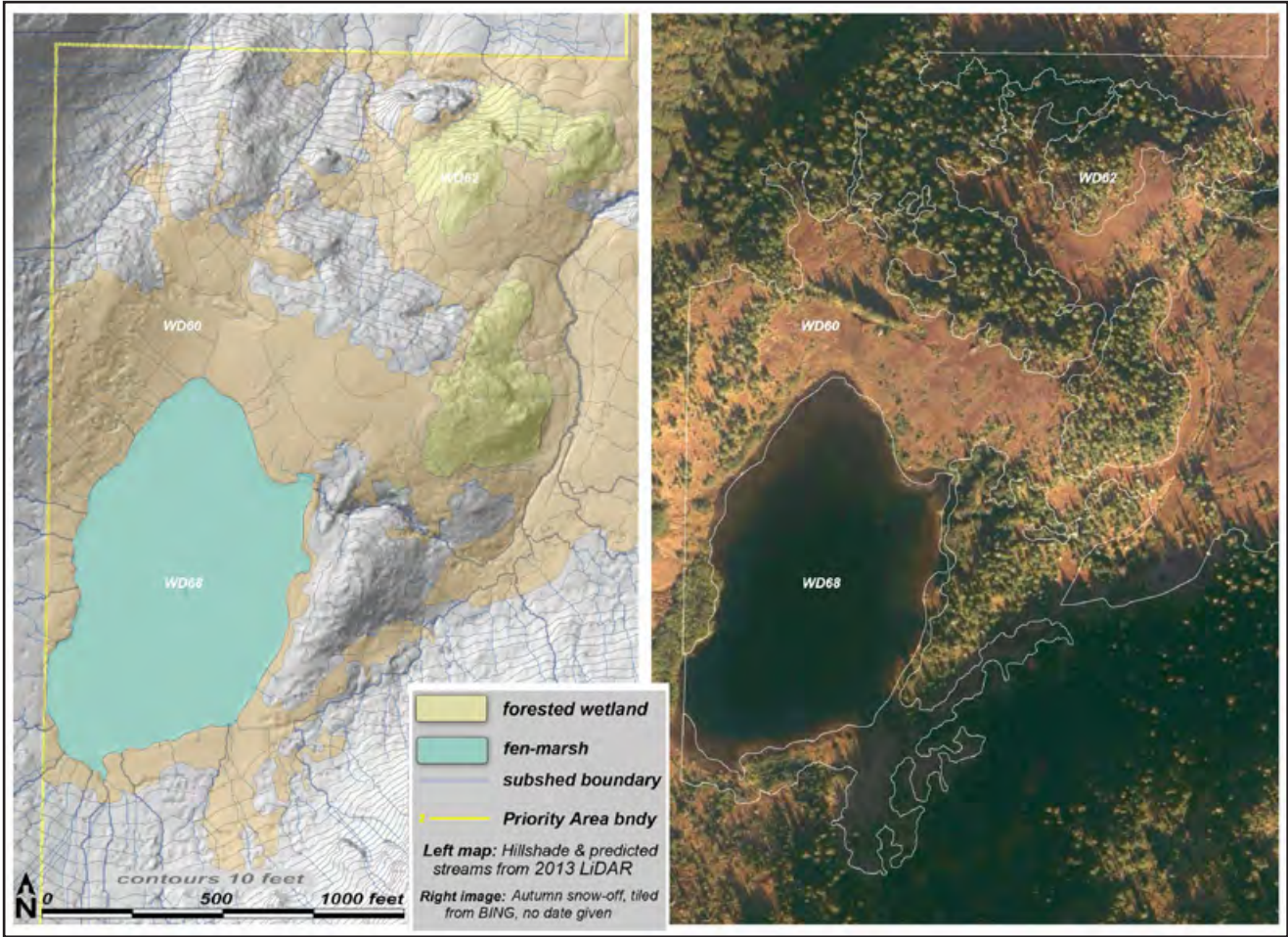


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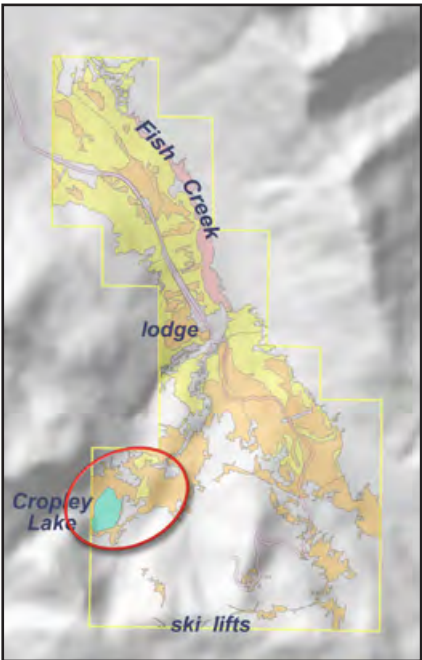


WD62 • **type:** forested peatland • **acres:** 5.4 • **boundary criteria:** type • **pin:** 3D1021000010 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Invertebrate Habitat	6.57	Higher	0.34	Lower
Organic Nutrient Export	7.87	Higher	N.A.	N.A.
Carbon Sequestration	6.72	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.77	Moderate	3.33	Moderate
Water Cooling	4.60	Moderate	1.47	Lower
Amphibian Habitat	3.50	Moderate	1.47	Lower
Sediment Retention & Stabilization	2.80	Moderate	0.14	Lower
Pollinator Habitat	4.10	Lower	4.21	Moderate
Stream Flow Support	2.82	Lower	2.54	Moderate
Native Plant Habitat	2.67	Lower	2.52	Moderate
Nitrate Removal	1.86	Lower	1.46	Lower
Phosphorus Retention	1.53	Lower	1.53	Lower
Water Storage	0.38	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.20	Moderate
Wetland Risk	N.A.	N.A.	4.47	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.53	Lower
Public Use & Recognition	N.A.	N.A.	0.80	Lower



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WD63 • **type:** open peatland • **acres:** 1.6 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.43	Higher	5.39	Moderate
Pollinator Habitat	6.83	Higher	4.25	Moderate
Stream Flow Support	6.30	Higher	2.06	Moderate
Organic Nutrient Export	8.42	Higher	N.A.	N.A.
Water Warming	3.36	Moderate	6.93	Higher
Water Cooling	5.08	Moderate	3.68	Moderate
Invertebrate Habitat	4.16	Moderate	1.01	Lower
Water Storage	3.91	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.39	Moderate	0.00	Lower
Native Plant Habitat	1.90	Lower	3.44	Moderate
Amphibian Habitat	1.57	Lower	6.01	Moderate
Nitrate Removal	0.65	Lower	3.18	Moderate
Phosphorus Retention	1.70	Lower	1.70	Lower
Sediment Retention & Stabilization	1.11	Lower	0.81	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.91	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	9.54	Higher
Wetland Risk	N.A.	N.A.	9.50	Higher
Wetland Ecological Condition	N.A.	N.A.	4.86	Moderate
Public Use & Recognition	N.A.	N.A.	3.36	Moderate
Wetland Sensitivity	N.A.	N.A.	3.01	Lower



WD64 • **type:** open peatland • **acres:** 16.7 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

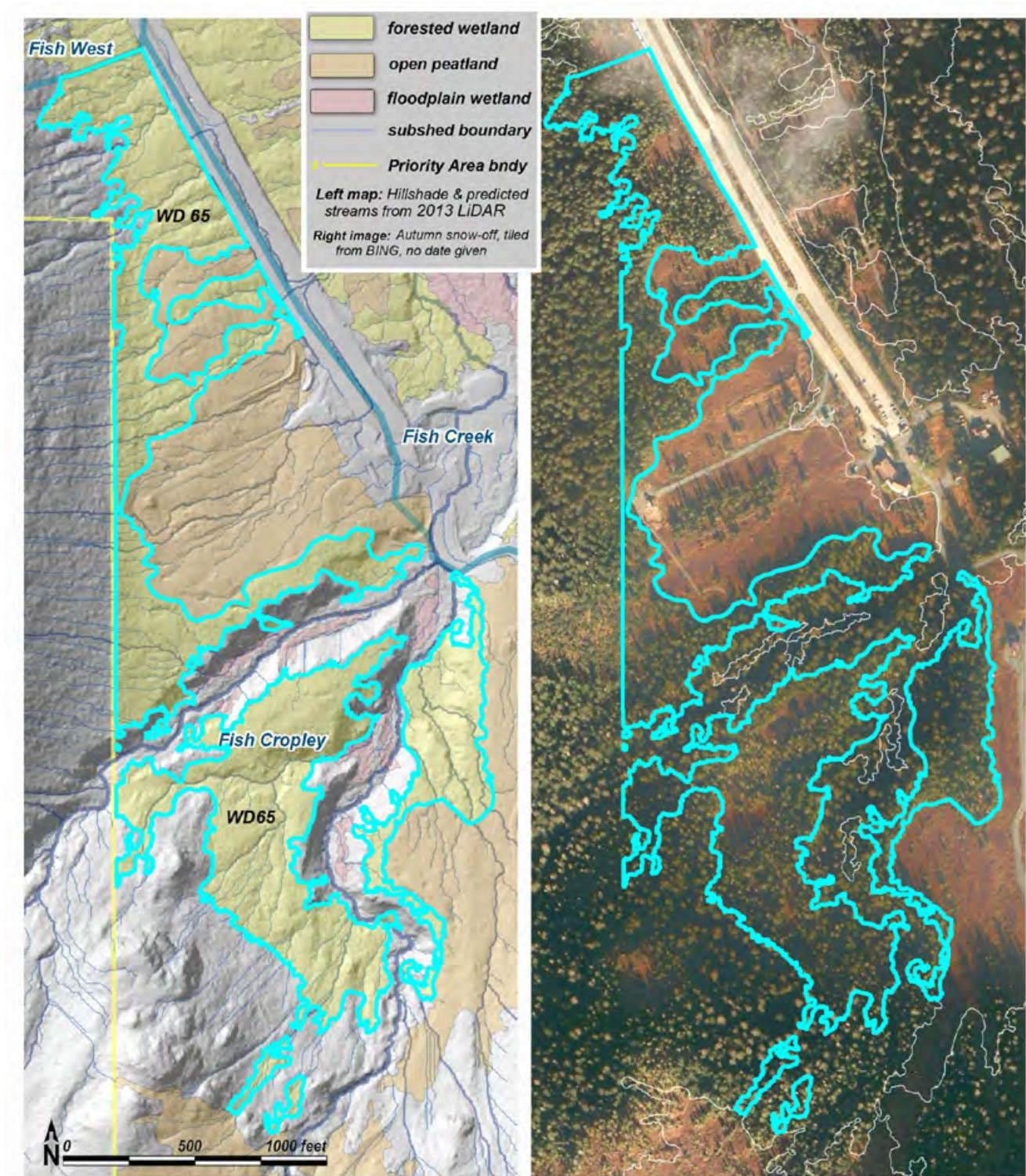
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.28	Higher	5.39	Moderate
Water Warming	6.16	Higher	4.86	Moderate
Water Cooling	5.84	Higher	1.58	Lower
Organic Nutrient Export	8.91	Higher	N.A.	N.A.
Pollinator Habitat	5.14	Moderate	4.25	Moderate
Stream Flow Support	4.39	Moderate	2.03	Moderate
Phosphorus Retention	3.70	Moderate	3.70	Moderate
Nitrate Removal	2.75	Moderate	5.15	Moderate
Invertebrate Habitat	4.01	Moderate	1.00	Lower
Water Storage	3.64	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.49	Moderate	0.00	Lower
Carbon Sequestration	4.93	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.82	Lower	3.91	Moderate
Amphibian Habitat	1.61	Lower	5.95	Moderate
Native Plant Habitat	0.34	Lower	3.04	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.61	Moderate
Wetland Risk	N.A.	N.A.	6.12	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Public Use & Recognition	N.A.	N.A.	3.09	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.89	Lower

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WD65 • **type:** for. peatland
 • **acres:** 36.4 • **boundary**
criteria: w-u, pa, type, subsh •
pin: 3D1021000010 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.65	Higher	3.33	Moderate
Stream Flow Support	7.53	Higher	1.68	Moderate
Water Cooling	5.94	Higher	3.95	Moderate
Organic Nutrient Export	9.17	Higher	N.A.	N.A.
Nitrate Removal	2.43	Moderate	6.89	Higher
Pollinator Habitat	6.19	Moderate	4.21	Moderate
Water Warming	4.62	Moderate	3.57	Moderate
Native Plant Habitat	4.22	Moderate	2.52	Moderate
Amphibian Habitat	3.18	Moderate	3.04	Lower
Carbon Sequestration	4.44	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	0.00	Lower	3.81	Moderate
Phosphorus Retention	2.38	Lower	2.38	Lower
Invertebrate Habitat	2.26	Lower	0.61	Lower
Water Storage	0.28	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Risk	N.A.	N.A.	6.58	Higher
Public Use & Recognition	N.A.	N.A.	5.32	Higher
Wetland Stressors	N.A.	N.A.	6.81	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.81	Moderate



Unit map for WD65

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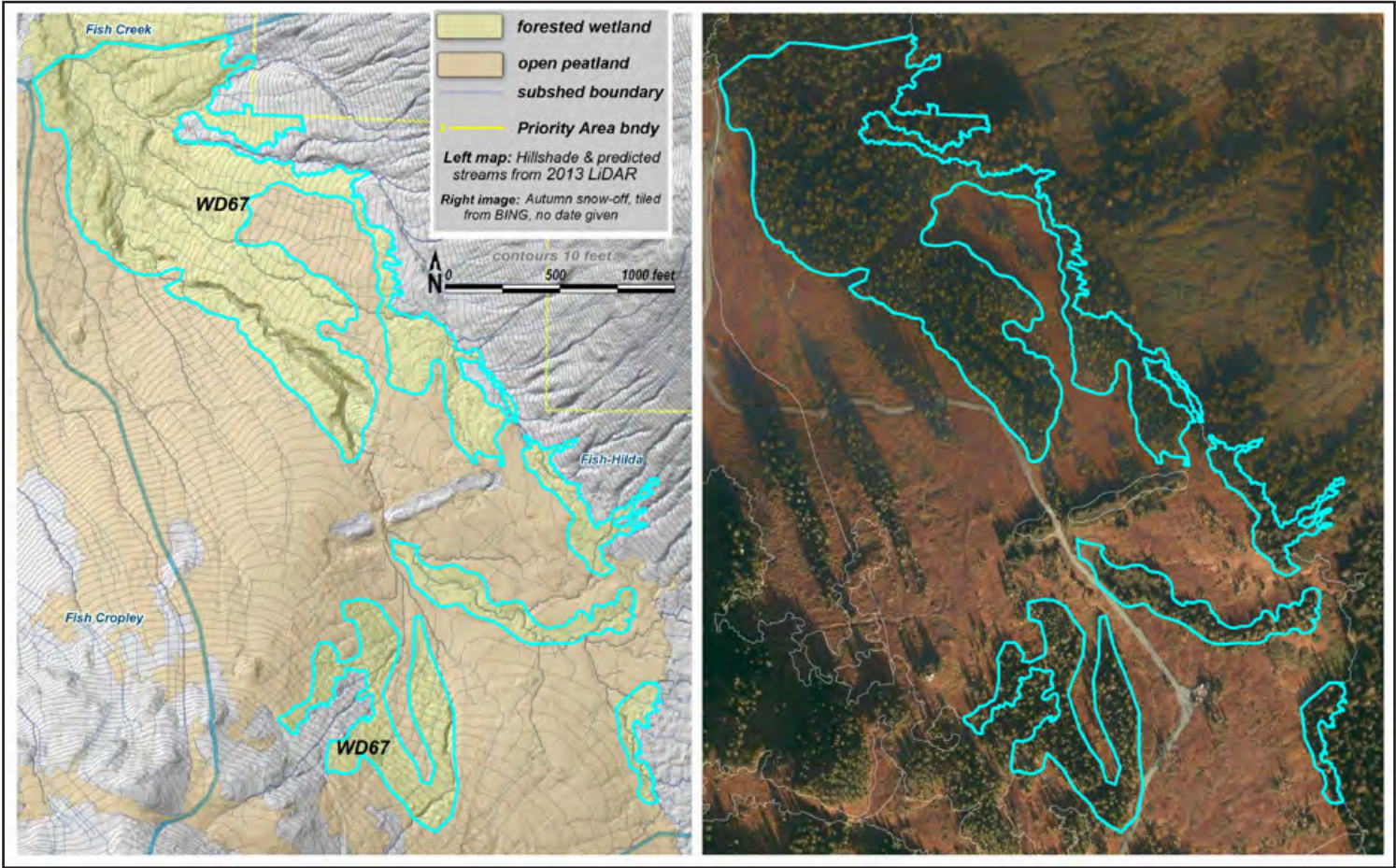
WD66 • **type:** open peatland • **acres:** 19.8 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	5.57	Higher	5.89	Higher
Stream Flow Support	8.54	Higher	2.29	Moderate
Songbird, Raptor, & Mammal Habitat	7.72	Higher	5.39	Moderate
Water Cooling	6.21	Higher	3.51	Moderate
Nitrate Removal	3.46	Higher	4.75	Moderate
Invertebrate Habitat	5.29	Higher	1.06	Lower
Organic Nutrient Export	9.69	Higher	N.A.	N.A.
Carbon Sequestration	6.09	Higher	N.A.	N.A.
Pollinator Habitat	5.12	Moderate	4.25	Moderate
Native Plant Habitat	4.44	Moderate	2.60	Moderate
Waterbird Feeding Habitat	4.11	Moderate	0.00	Lower
Water Storage	3.44	Moderate	1.11	Lower
Sediment Retention & Stabilization	2.26	Lower	3.86	Moderate
Amphibian Habitat	2.24	Lower	5.90	Moderate
Phosphorus Retention	1.21	Lower	1.21	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.19	Higher
Wetland Stressors	N.A.	N.A.	6.86	Moderate
Wetland Risk	N.A.	N.A.	6.05	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.51	Moderate
Public Use & Recognition	N.A.	N.A.	1.28	Lower

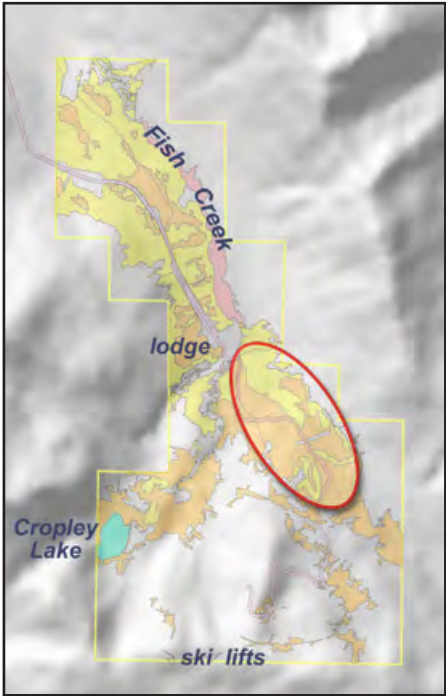


WD67 • **type:** for. peatland
 • **acres:** 41.1 • **boundary**
criteria: w-u, pa, type, subsh •
pin: 3D1021000010 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.32	Higher	3.33	Moderate
Pollinator Habitat	7.79	Higher	4.21	Moderate
Stream Flow Support	7.53	Higher	2.63	Moderate
Water Cooling	6.32	Higher	3.51	Moderate
Water Warming	5.32	Higher	3.02	Moderate
Invertebrate Habitat	7.01	Higher	0.91	Lower
Organic Nutrient Export	10.00	Higher	N.A.	N.A.
Nitrate Removal	2.38	Moderate	5.51	Higher
Water Storage	3.58	Moderate	6.11	Moderate
Amphibian Habitat	3.42	Moderate	4.43	Moderate
Phosphorus Retention	3.26	Moderate	3.26	Moderate
Carbon Sequestration	5.55	Moderate	N.A.	N.A.
Native Plant Habitat	2.67	Lower	3.90	Moderate
Sediment Retention & Stabilization	2.26	Lower	4.26	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.36	Moderate
Wetland Risk	N.A.	N.A.	6.27	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Ecological Condition	N.A.	N.A.	2.81	Lower
Public Use & Recognition	N.A.	N.A.	1.95	Lower



Unit map for WD67





WD68 • **type:** fen/marsh •
acres: 11.5 • **boundary crite-**
ria: type • **pin:** 3D1021000010
 • no known or probable anadromous fish

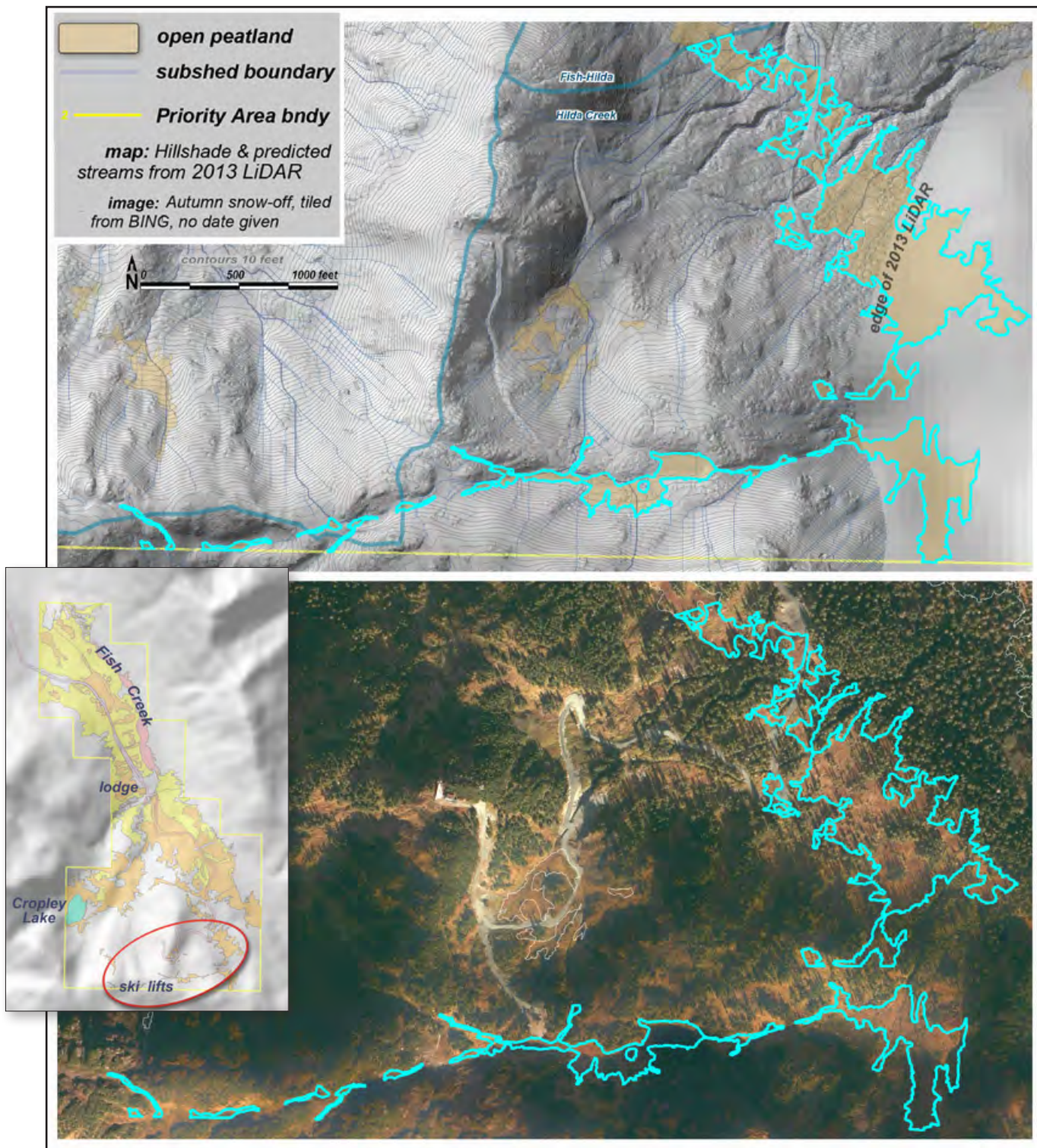
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	9.75	Higher	6.31	Higher
Waterbird Nesting Habitat	8.44	Higher	10.00	Higher
Waterbird Feeding Habitat	8.43	Higher	6.33	Higher
Invertebrate Habitat	5.51	Higher	10.00	Higher
Stream Flow Support	9.60	Higher	2.33	Moderate
Amphibian Habitat	5.45	Higher	5.00	Moderate
Organic Nutrient Export	7.82	Higher	N.A.	N.A.
Water Cooling	2.94	Moderate	3.51	Moderate
Nitrate Removal	2.86	Moderate	4.75	Moderate
Native Plant Habitat	2.32	Lower	6.29	Higher
Sediment Retention & Stabilization	1.75	Lower	3.74	Moderate
Phosphorus Retention	2.28	Lower	2.28	Lower
Water Storage	1.52	Lower	1.11	Lower
Pollinator Habitat	0.12	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	0.22	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	3.83	Moderate
Public Use & Recognition	N.A.	N.A.	2.45	Moderate
Wetland Stressors	N.A.	N.A.	4.01	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Risk	N.A.	N.A.	3.18	Lower

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WD69 • **type:** open peatland •
acres: 23.5 • **boundary criteria:**
 w-u, subsh • **pin:** 3D1021000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	6.64	Higher	6.93	Higher
Stream Flow Support	8.79	Higher	1.60	Moderate
Songbird, Raptor, & Mammal Habitat	7.61	Higher	5.39	Moderate
Native Plant Habitat	5.35	Higher	2.60	Moderate
Organic Nutrient Export	8.65	Higher	N.A.	N.A.
Pollinator Habitat	5.77	Moderate	4.25	Moderate
Water Cooling	4.34	Moderate	3.95	Moderate
Waterbird Feeding Habitat	3.57	Moderate	0.00	Lower
Carbon Sequestration	5.55	Moderate	N.A.	N.A.
Nitrate Removal	1.66	Lower	4.75	Moderate
Amphibian Habitat	1.52	Lower	5.45	Moderate
Sediment Retention & Stabilization	1.34	Lower	3.71	Moderate
Water Storage	2.61	Lower	1.11	Lower
Phosphorus Retention	2.29	Lower	2.29	Lower
Invertebrate Habitat	1.87	Lower	0.89	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.47	Higher
Wetland Stressors	N.A.	N.A.	7.45	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.05	Lower
Public Use & Recognition	N.A.	N.A.	2.04	Lower



Unit map for WD69



WD70 • **type:** open peatland • **acres:** 1.8 • **boundary criteria:** w-u • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	10.00	Higher	10.00	Higher
Stream Flow Support	8.59	Higher	10.00	Higher
Anadromous Fish Habitat	7.95	Higher	4.58	Moderate
Organic Nutrient Export	9.31	Higher	N.A.	N.A.
Water Cooling	3.32	Moderate	6.85	Higher
Pollinator Habitat	6.63	Moderate	3.19	Moderate
Songbird, Raptor, & Mammal Habitat	6.25	Moderate	4.04	Moderate
Resident Fish Habitat	5.10	Moderate	5.00	Moderate
Nitrate Removal	3.00	Moderate	5.29	Moderate
Native Plant Habitat	4.76	Moderate	0.33	Lower
Waterbird Feeding Habitat	3.54	Moderate	0.00	Lower
Water Storage	3.45	Moderate	2.59	Lower
Sediment Retention & Stabilization	1.54	Lower	3.92	Moderate
Amphibian Habitat	1.06	Lower	4.29	Moderate
Invertebrate Habitat	2.19	Lower	2.65	Lower
Phosphorus Retention	0.85	Lower	0.85	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.88	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	9.86	Higher
Wetland Stressors	N.A.	N.A.	9.85	Higher
Wetland Sensitivity	N.A.	N.A.	8.39	Higher
Wetland Ecological Condition	N.A.	N.A.	4.97	Moderate
Public Use & Recognition	N.A.	N.A.	3.35	Moderate

3.0 SCORES BY AA: TIDAL WETLANDS

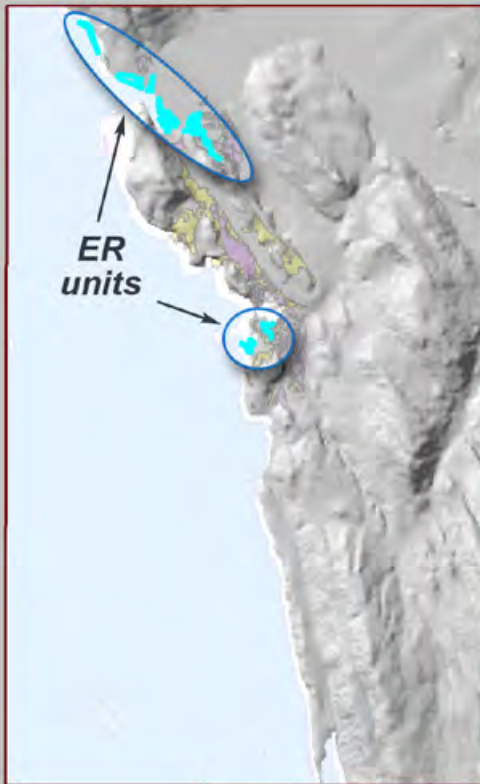
We assessed 13 tidal wetland AAs on 3 map pages: Eagle River (ER), South Valley (SV) and North Douglas (ND). They totalled 58 acres.

The following descriptions of tidal wetlands follow the same format as those for non-tidal wetlands.

Similarly, in each AA's score table, *the functions or other attributes are listed from highest-to-lowest function score*. A high Value score indicates that, because of reasons such as where the AA is located, the function is likely to be valued more highly if it is performed currently or in the future.

For tidal wetlands, WESPAK-SE generates scores for fewer functions (7) than it does for non-tidal wetlands (18). That does not mean that tidal wetlands are less valuable. For some functions (Phosphorus Retention, Nitrate Removal, Water Cooling, Water Warming, Resident Fish Habitat, Aquatic Invertebrate Habitat, Pollinator Habitat) it means only that scientific knowledge was considered insufficient to construct models capable of differentiating among distinct tidal wetland AAs. Some other functions—specifically Water Storage, Stream Flow Support, Amphibian Habitat, and Waterbird Nesting Habitat—are not scored by WESPAK-SE because tidal wetlands as a whole do not significantly support those functions (however, upper margins of tidal wetlands that are tidally flooded less than about once monthly may support those to some degree). Consistent with the non-tidal component of WESPAK-SE, no value scores are assigned to Carbon Sequestration or Organic Nutrient Export because their benefits are expressed globally or at a broad scale.

The scores that WESPAK-SE generates for tidal wetlands cannot fairly be compared with those from the ones it generates for non-tidal wetlands because WESPAK-SE uses different indicators and models, and scores have been normalized across many fewer AAs (13 instead of 333). Any comparisons between tidal and non-tidal wetlands must take into consideration the fact that for several functions—Waterbird



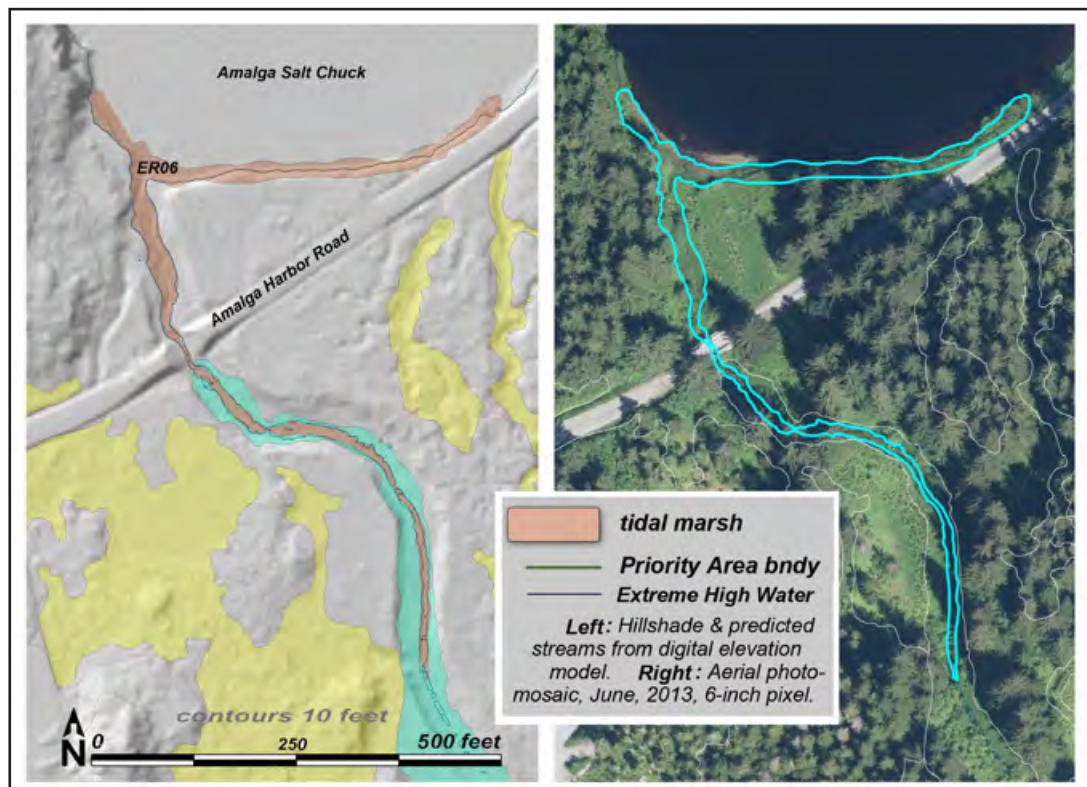
Feeding Habitat, Anadromous Fish Habitat, and perhaps Carbon Sequestration and Sediment Retention—most tidal wetlands likely perform at a level that is orders of magnitude greater than performed by most non-tidal wetlands in Southeast Alaska.

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ER06 • **type:** tidal •
acres: 0.5 • **boundary**
criteria: w-u, type • **pin:**
 3B4001000060 • known or
 probable anadromous fish

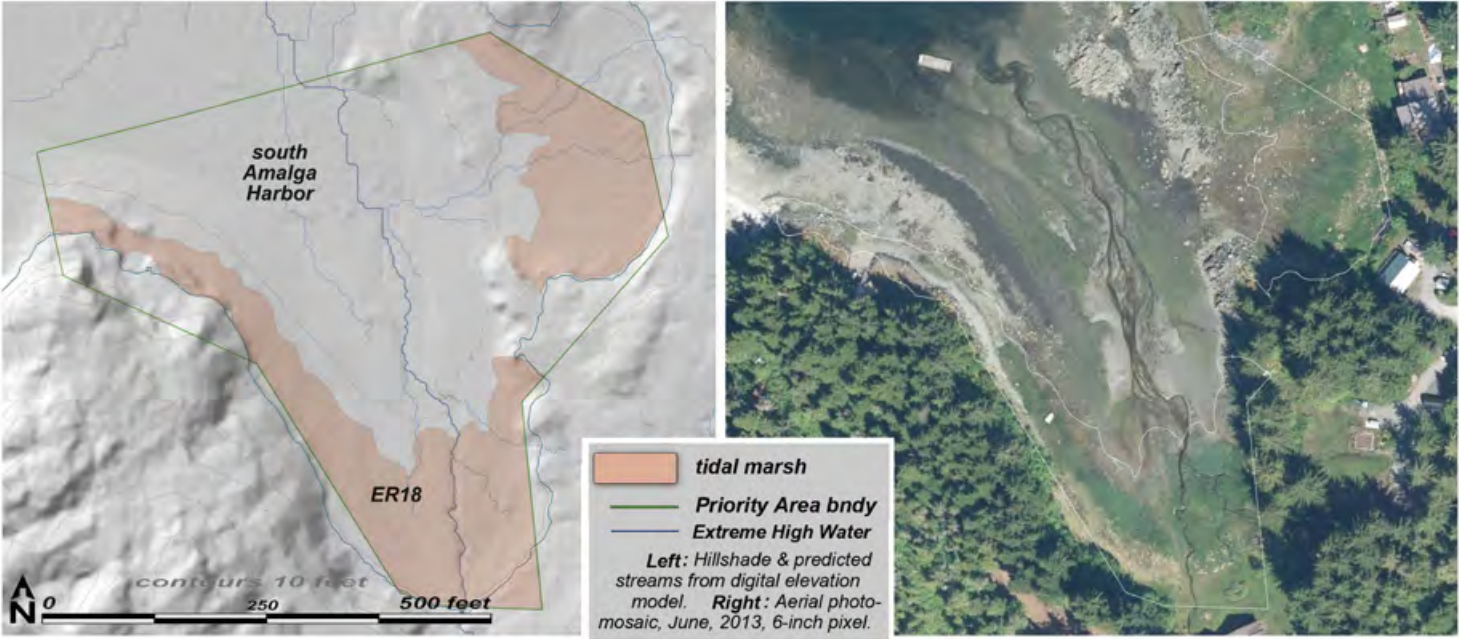
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	7.37	Higher	9.52	Higher
Native Plant Habitat	3.16	Moderate	10.00	Higher
Sediment Retention & Stabilization	4.26	Moderate	0.00	Lower
Songbird, Raptor, & Mammal Habitat	4.25	Moderate	0.00	Lower
Waterbird Feeding Habitat	5.76	Moderate	3.33	Lower
Carbon Sequestration	0.00	Lower	N.A.	N.A.
Organic Nutrient Export	2.49	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	9.10	Higher
Wetland Sensitivity	N.A.	N.A.	4.04	Moderate
Wetland Stressors	N.A.	N.A.	0.00	Lower





ER18 • type: tidal • acres: 0.7 • boundary criteria: w-u, pa • pin: 3B4001040050 • known or probable anadromous fish

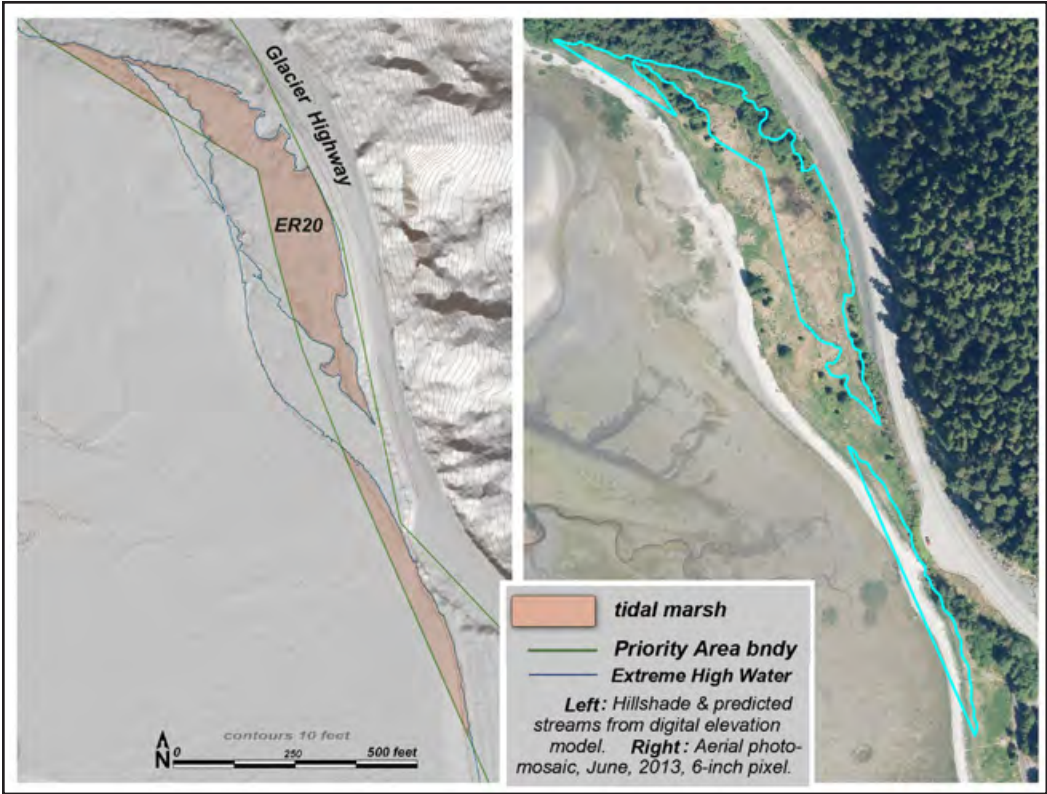
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Sediment Retention & Stabilization	10.00	Higher	10.00	Higher
Carbon Sequestration	6.00	Higher	N.A.	N.A.
Organic Nutrient Export	7.97	Higher	N.A.	N.A.
Anadromous Fish Habitat	3.75	Moderate	7.14	Moderate
Native Plant Habitat	0.62	Lower	10.00	Higher
Waterbird Feeding Habitat	1.40	Lower	6.67	Moderate
Songbird, Raptor, & Mammal Habitat	0.03	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	10.00	Higher
Wetland Sensitivity	N.A.	N.A.	3.39	Moderate





ER20 • type: tidal • acres: 2.9 • boundary criteria: w-u, pa • pin: 3B4404000010 • known or probable anadromous fish

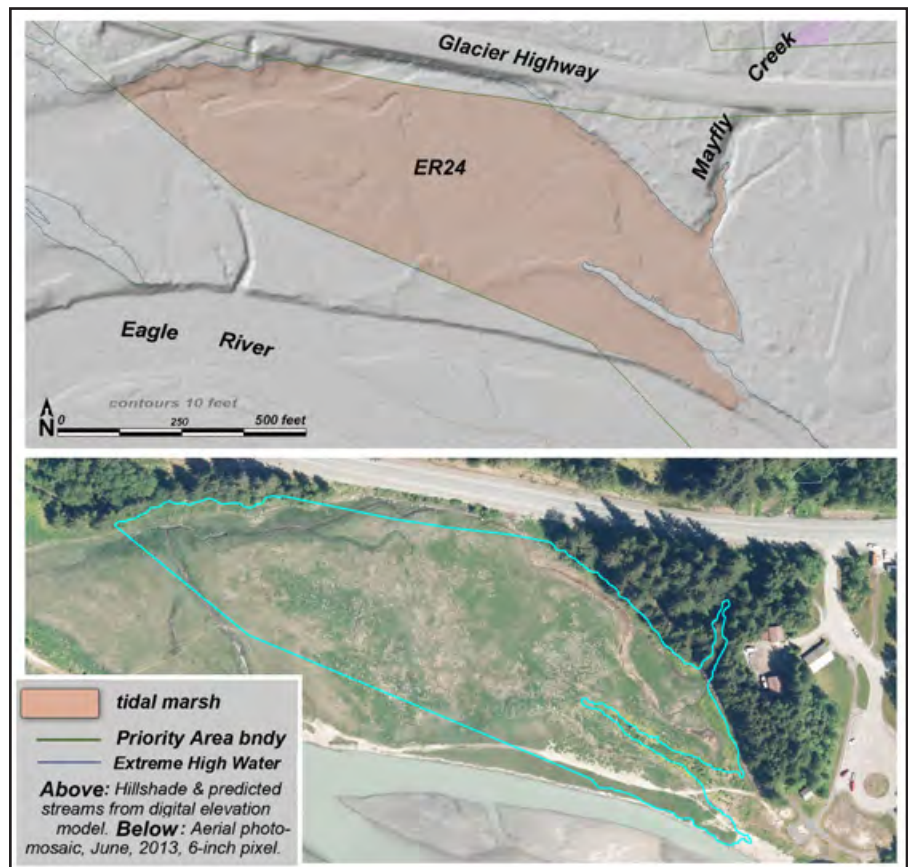
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	9.65	Higher	10.00	Higher
Native Plant Habitat	8.58	Higher	10.00	Higher
Sediment Retention & Stabilization	10.00	Higher	8.39	Higher
Songbird, Raptor, & Mammal Habitat	8.82	Higher	0.00	Lower
Carbon Sequestration	6.60	Higher	N.A.	N.A.
Organic Nutrient Export	5.31	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	1.08	Lower	2.67	Lower
Wetland Sensitivity	N.A.	N.A.	10.00	Higher
Public Use & Recognition	N.A.	N.A.	6.87	Moderate
Wetland Stressors	N.A.	N.A.	5.80	Moderate





ER24 • **type:** tidal •
acres: 8.6 • **boundary**
criteria: w-u, pa • **pin:**
 3B4404000010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	7.87	Higher	10.00	Higher
Sediment Retention & Stabilization	10.00	Higher	6.89	Higher
Songbird, Raptor, & Mammal Habitat	8.21	Higher	0.00	Lower
Organic Nutrient Export	7.11	Higher	N.A.	N.A.
Carbon Sequestration	2.09	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	2.08	Lower	2.67	Lower
Public Use & Recognition	N.A.	N.A.	9.25	Higher
Wetland Stressors	N.A.	N.A.	8.30	Higher
Wetland Sensitivity	N.A.	N.A.	3.93	Moderate





ER25 • **type:** tidal •
acres: 1.1 • **boundary**
criteria: w-u, pa • **pin:**
3B4404000010 • known or
probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	7.90	Higher	10.00	Higher
Native Plant Habitat	5.89	Higher	10.00	Higher
Sediment Retention & Stabilization	10.00	Higher	4.79	Moderate
Organic Nutrient Export	7.85	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	4.74	Moderate	0.00	Lower
Carbon Sequestration	2.84	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	0.00	Lower	2.67	Lower
Public Use & Recognition	N.A.	N.A.	9.25	Higher
Wetland Stressors	N.A.	N.A.	6.89	Higher
Wetland Sensitivity	N.A.	N.A.	3.60	Moderate

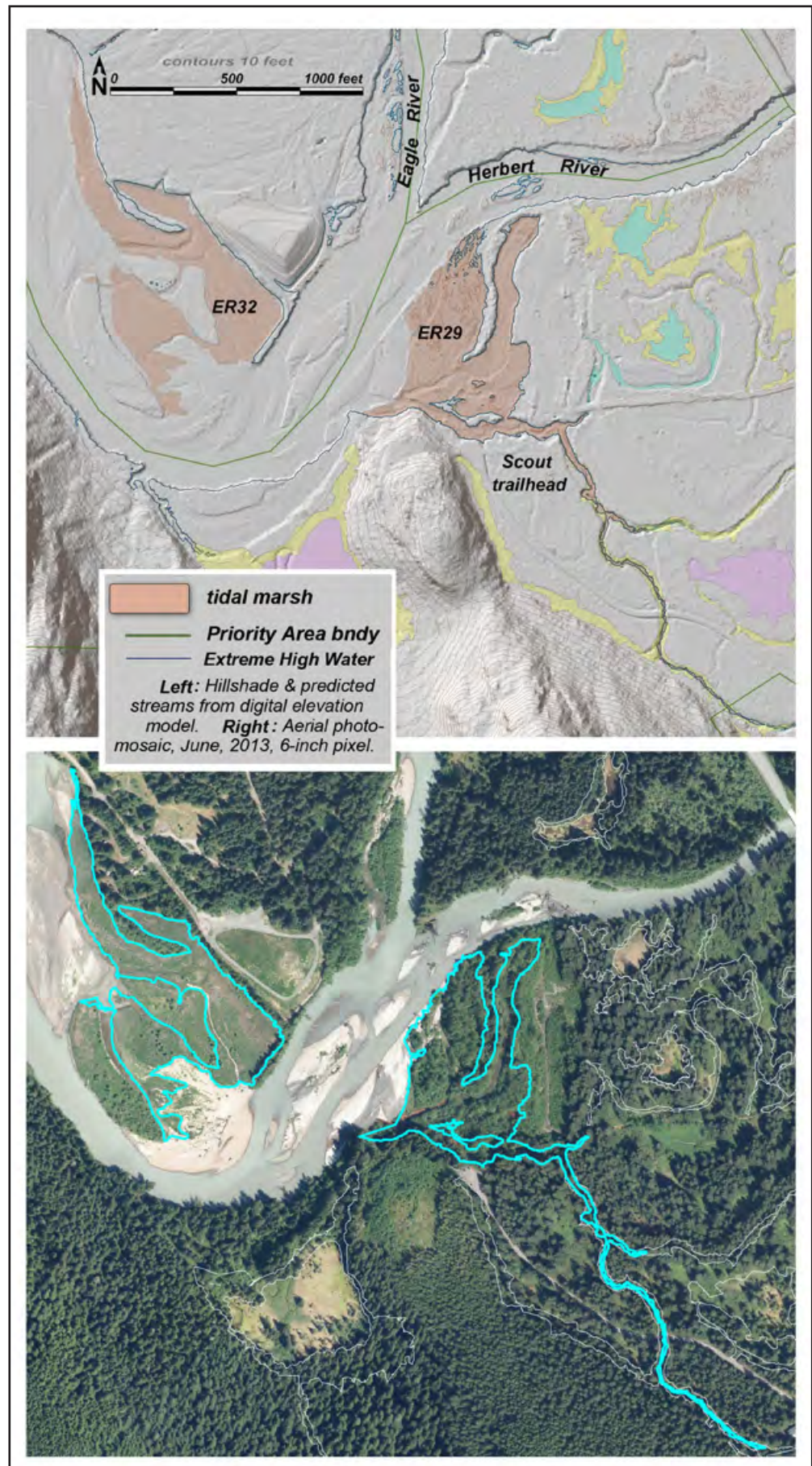




ER29 • type: tidal •
acres: 9.6 • boundary crite-
ria: w-u • pin: 3B4404000010
• known or probable anadro-
mous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	7.52	Higher	7.62	Moderate
Sediment Retention & Stabilization	10.00	Higher	3.90	Moderate
Native Plant Habitat	10.00	Higher	0.00	Lower
Songbird, Raptor, & Mammal Habitat	10.00	Higher	0.00	Lower
Waterbird Feeding Habitat	3.51	Moderate	0.00	Lower
Carbon Sequestration	0.42	Lower	N.A.	N.A.
Organic Nutrient Export	1.99	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	5.37	Moderate
Wetland Stressors	N.A.	N.A.	4.01	Moderate
Wetland Sensitivity	N.A.	N.A.	0.00	Lower

Unit maps for ER29 & ER





ER32 • **type:** tidal •
acres: 9.2 • **bound-**
ary criteria: w-u • **pin:**
3B4404000010 • **known or**
probable anadromous fish

will correct in table

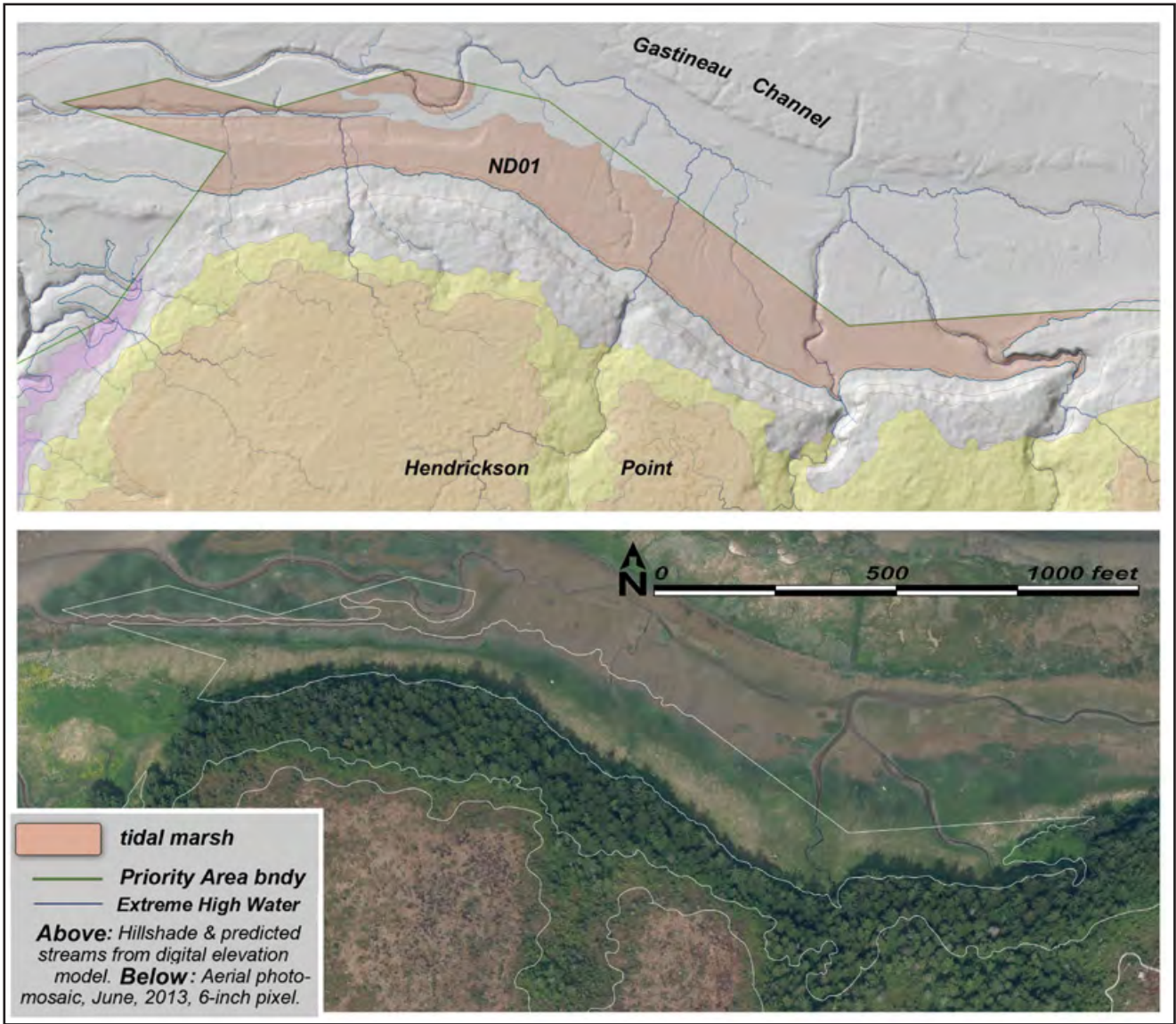
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Native Plant Habitat	7.61	Higher	10.00	Higher
Sediment Retention & Stabilization	10.00	Higher	4.79	Moderate
Songbird, Raptor, & Mammal Habitat	7.58	Higher	0.00	Lower
Organic Nutrient Export	5.22	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.47	Lower	2.67	Lower
Carbon Sequestration	0.70	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	8.96	Higher
Wetland Stressors	N.A.	N.A.	6.83	Higher

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ND01 • **type:** tidal •
acres: 6.6 • **boundary**
criteria: w-u, pa • **pin:**
 6D1001040010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	9.45	Higher	10.00	Higher
Anadromous Fish Habitat	6.42	Higher	7.14	Moderate
Sediment Retention & Stabilization	10.00	Higher	2.70	Moderate
Carbon Sequestration	10.00	Higher	N.A.	N.A.
Organic Nutrient Export	10.00	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	3.81	Moderate	10.00	Higher
Native Plant Habitat	3.60	Moderate	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	2.48	Moderate
Public Use & Recognition	N.A.	N.A.	0.00	Lower
Wetland Stressors	N.A.	N.A.	0.35	Lower



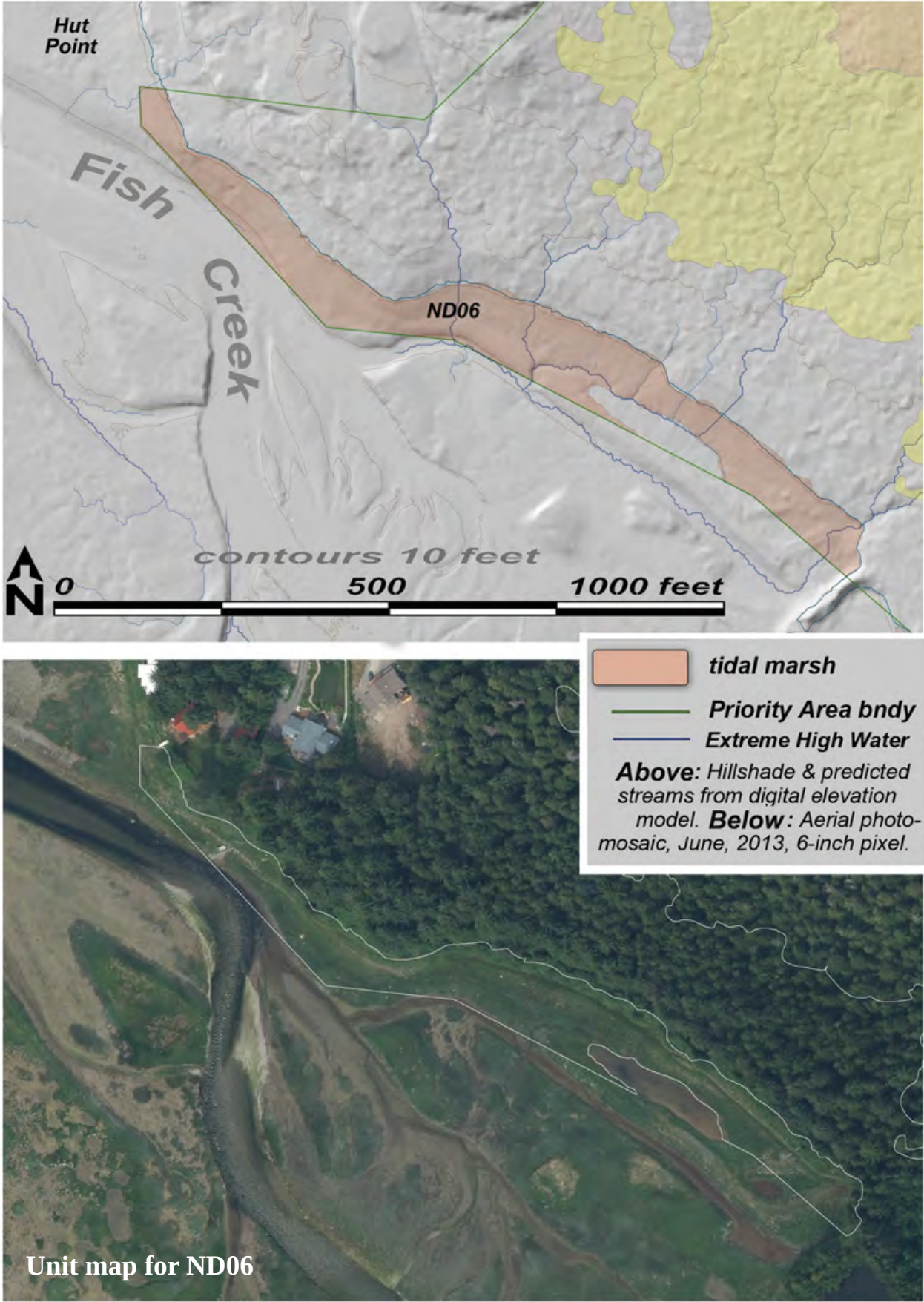
Unit map for ND01

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ND06 • **type:** tidal •
acres: 2.2 • **boundary**
criteria: w-u, pa • **pin:**
 6D1201050010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.55	Higher	10.00	Higher
Native Plant Habitat	7.35	Higher	0.00	Lower
Sediment Retention & Stabilization	10.00	Higher	0.00	Lower
Anadromous Fish Habitat	3.00	Moderate	9.52	Higher
Waterbird Feeding Habitat	6.40	Moderate	10.00	Higher
Carbon Sequestration	3.49	Moderate	N.A.	N.A.
Organic Nutrient Export	5.71	Moderate	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	7.98	Higher
Public Use & Recognition	N.A.	N.A.	5.07	Moderate
Wetland Sensitivity	N.A.	N.A.	0.00	Lower



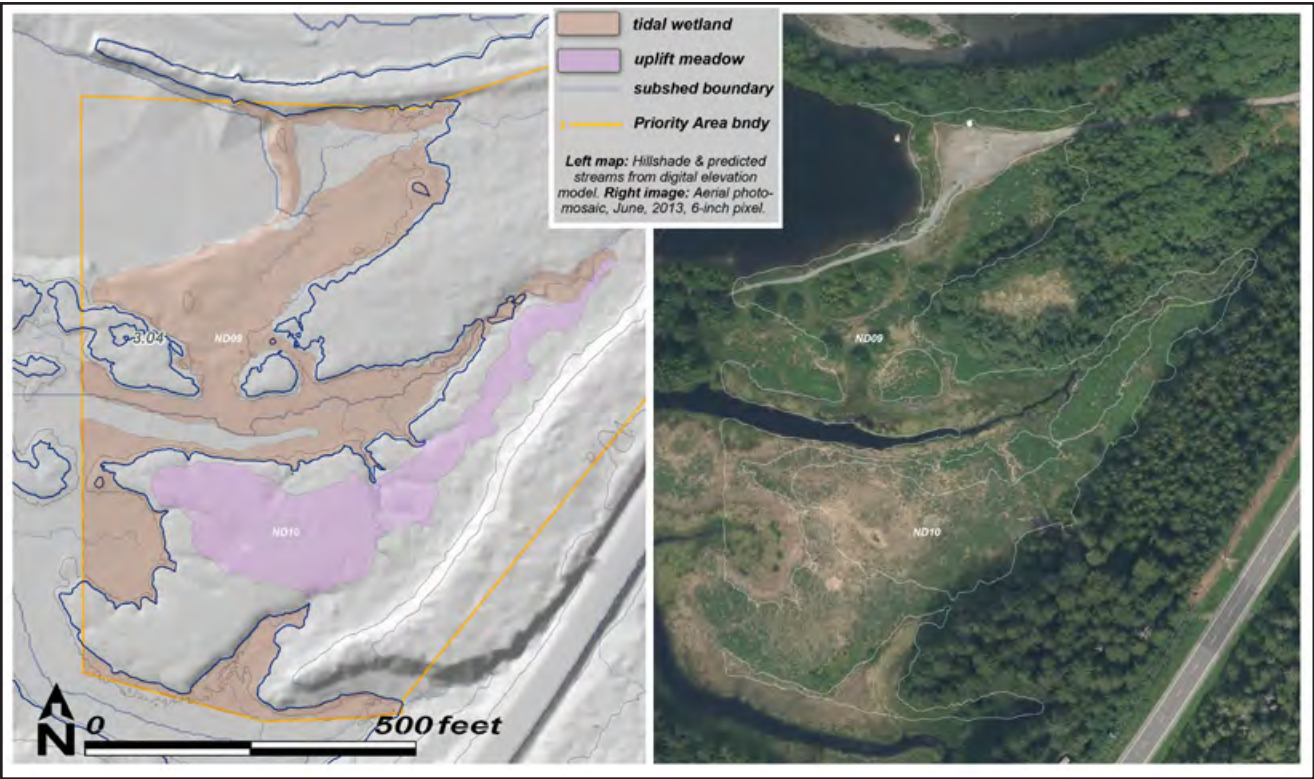


ND09 • type: tidal •
acres: 2.9 • boundary
criteria: w-u, pa • pin:
6D1201070010 • known or
probable anadromous fish

will correct in tabel

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.89	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	7.40	Higher	0.00	Lower
Sediment Retention & Stabilization	0.64	Lower	2.32	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	0.23	Lower	N.A.	N.A.
Organic Nutrient Export	0.84	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	6.12	Moderate
Wetland Sensitivity	N.A.	N.A.	4.31	Moderate
Wetland Stressors	N.A.	N.A.	4.73	Moderate

Unit map for ND09

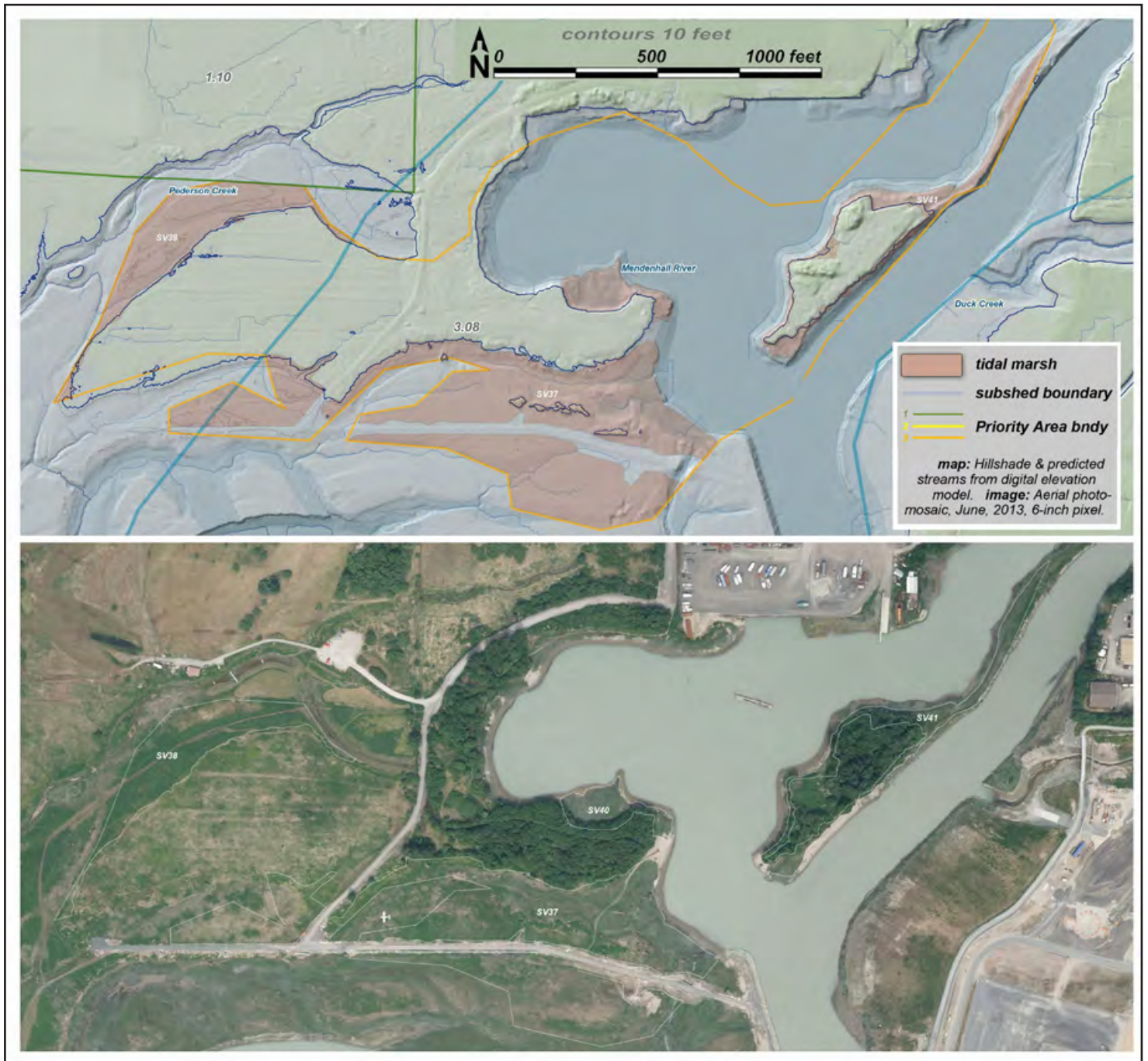




SV37 • **type:** tidal •
acres: 8.83 • **boundary**
criteria: w-u, pa • **pin:**
4B1701160040 • **known or**
probable anadromous fish

will be corrected in table

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	8.33	Higher	10.00	Higher
Native Plant Habitat	3.27	Moderate	10.00	Higher
Songbird, Raptor, & Mammal Habitat	5.89	Moderate	10.00	Higher
Sediment Retention & Stabilization	3.96	Moderate	0.60	Lower
Carbon Sequestration	2.09	Moderate	N.A.	N.A.
Organic Nutrient Export	4.29	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	6.72	Moderate
Wetland Sensitivity	N.A.	N.A.	3.11	Moderate
Wetland Stressors	N.A.	N.A.	5.74	Moderate



Unit maps for SV37 38 41



SV38 • **type:** tidal •
acres: 2.33 • **boundary**
criteria: w-u, pa • **pin:**
 4B1701160040 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Native Plant Habitat	6.74	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	8.24	Higher	10.00	Higher
Anadromous Fish Habitat	4.00	Moderate	7.14	Moderate
Carbon Sequestration	1.63	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	1.40	Lower	10.00	Higher
Sediment Retention & Stabilization	0.00	Lower	0.00	Lower
Organic Nutrient Export	0.00	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	5.46	Higher
Public Use & Recognition	N.A.	N.A.	7.61	Moderate
Wetland Stressors	N.A.	N.A.	5.57	Moderate



SV41 • **type:** tidal •
acres: 1.4 • **boundary**
criteria: w-u, pa • **pin:**
4B1701160040 • known or
probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	5.88	Moderate	10.00	Higher
Anadromous Fish Habitat	4.34	Moderate	7.14	Moderate
Organic Nutrient Export	4.52	Moderate	N.A.	N.A.
Native Plant Habitat	0.00	Lower	10.00	Higher
Songbird, Raptor, & Mammal Habitat	0.96	Lower	10.00	Higher
Sediment Retention & Stabilization	1.49	Lower	1.80	Lower
Carbon Sequestration	1.30	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.00	Higher
Public Use & Recognition	N.A.	N.A.	4.93	Moderate
Wetland Stressors	N.A.	N.A.	5.33	Moderate



4.0 SCORES BY AA: OFF-SITE MAPPING

In 2015, after conclusion of JWMPU field work, we assessed 48 wetland units ‘site-unseen’ through GIS. Methods are described in Volume 1, Section 2.3.4. Most of these Assessment Areas (AAs) are on private lands, with the exception of CBJ land on the south-eastern tip of Douglas Island.

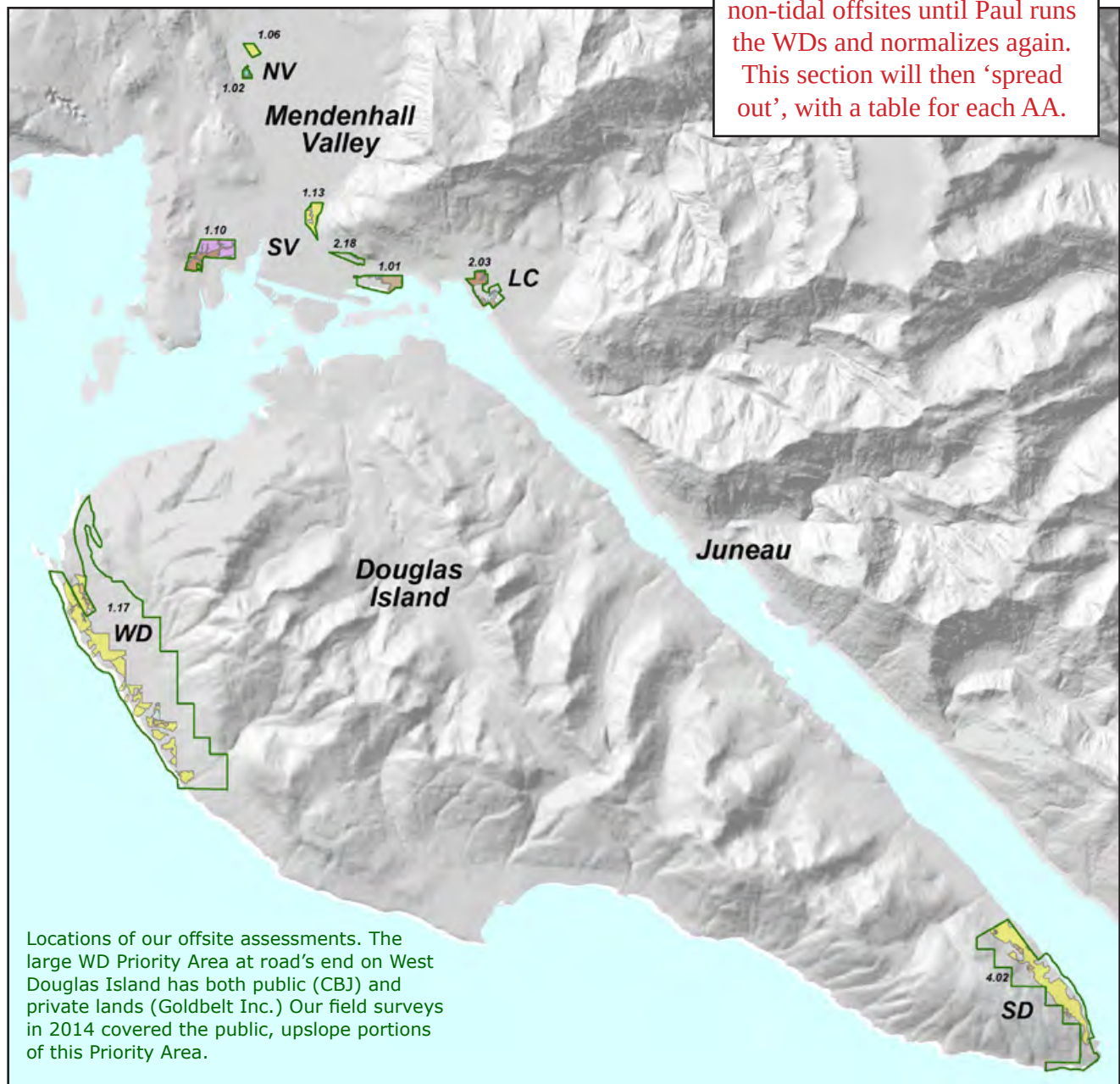
The overview map below shows that the off-site Priority Areas are clustered in Mendenhall and Lemon Creek Valleys, along with 2 outlying larger PAs on the distal ends of Douglas Island. Completing the seaward, private portions of the West Douglas (WD)

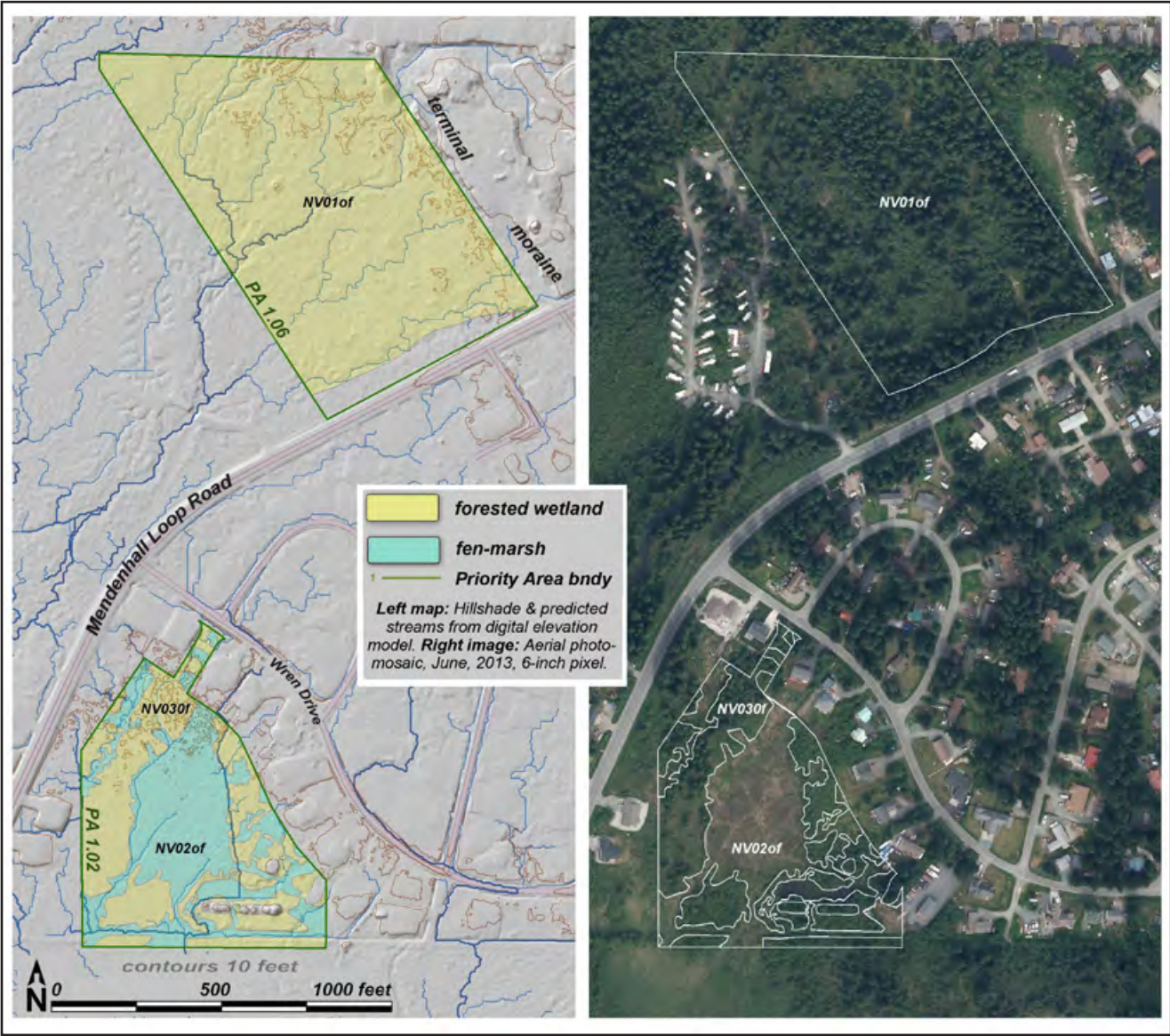
Priority Area 1.17—where we had already spent several weeks exploring public lands—allowed us to paint a fuller picture of the extent of wetlands in this unit.

In the previous Sections 2 and 3, results for non-tidal and tidal wetlands are segregated. Here, we intermingle them, in part because the unit maps often span both wetland types.

To reviewers:

Scores aren’t finished for the non-tidal offsites until Paul runs the WDs and normalizes again. This section will then ‘spread out’, with a table for each AA.

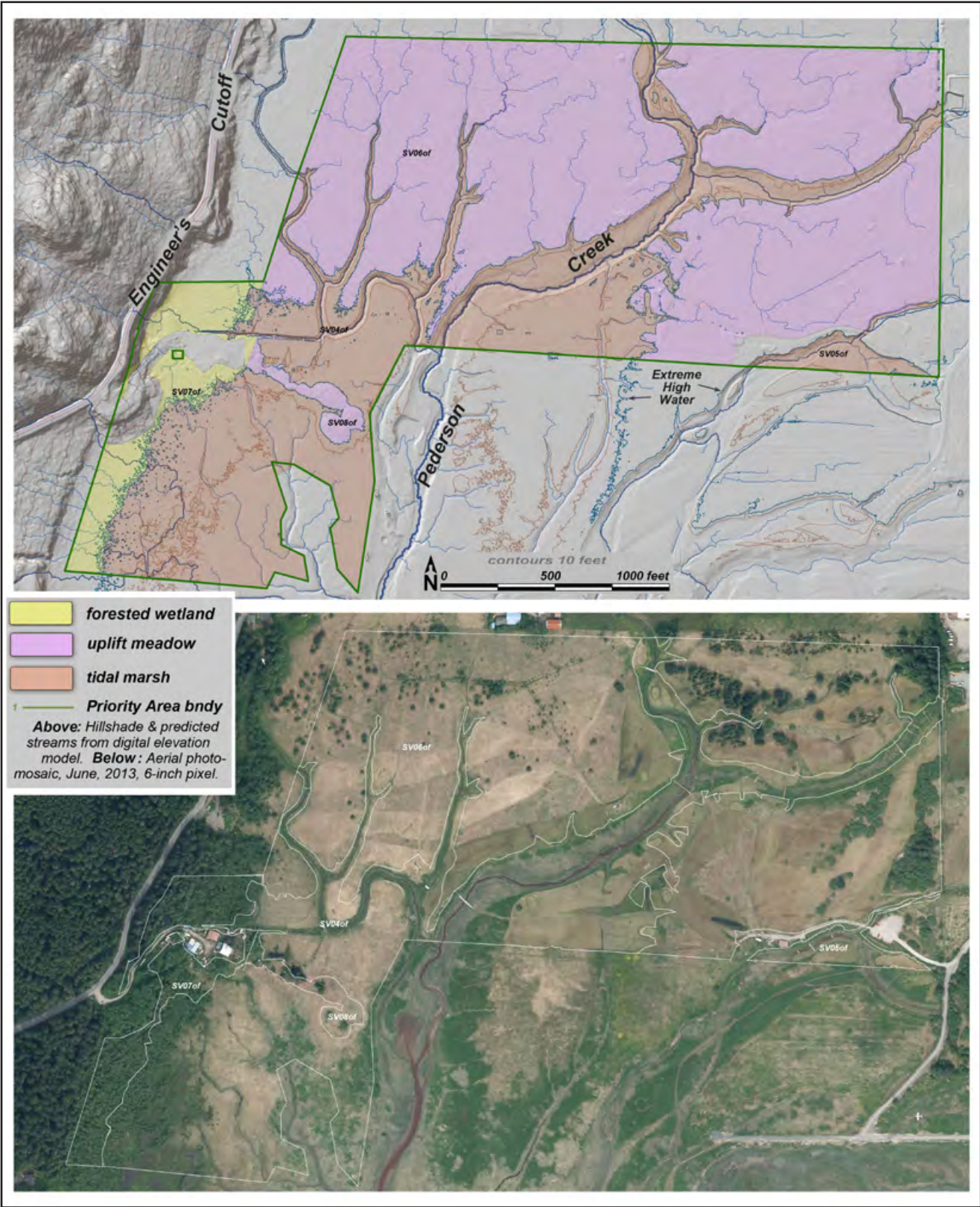




NV01of • **type:** forested peatland • **acres:** 16.74 • **boundary criteria:** w-u, pa • **pin:** 4B2901020020
• known or probable anadromous fish

NV02of • **type:** fen/marsh • **acres:** 5.23 • **boundary criteria:** w-u, type, pa • **pin:** 4B2601200040
• known or probable anadromous fish

NV03of • **type:** forested peatland • **acres:** 5.04 • **boundary criteria:** w-u, type, pa • **pin:**
4B2601200040 • known or probable anadromous fish



SV04of • **type:** tidal wetland
 • **acres:** 42.42 • **boundary**
criteria: w-u, type pa • **pin:**
 4B1701170011 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	10.00	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	9.09	Higher	10.00	Higher
Anadromous Fish Habitat	7.33	Higher	10.00	Higher
Carbon Sequestration	4.37	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	3.87	Moderate	0.75	Lower
Organic Nutrient Export	1.96	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	5.35	Moderate
Wetland Sensitivity	N.A.	N.A.	4.81	Higher

SV05of • **type:** tidal wetland
 • **acres:** 1.86 • **boundary**
criteria: w-u, type pa • **pin:**
 4B1701170011 • known or
 probable anadromous fish

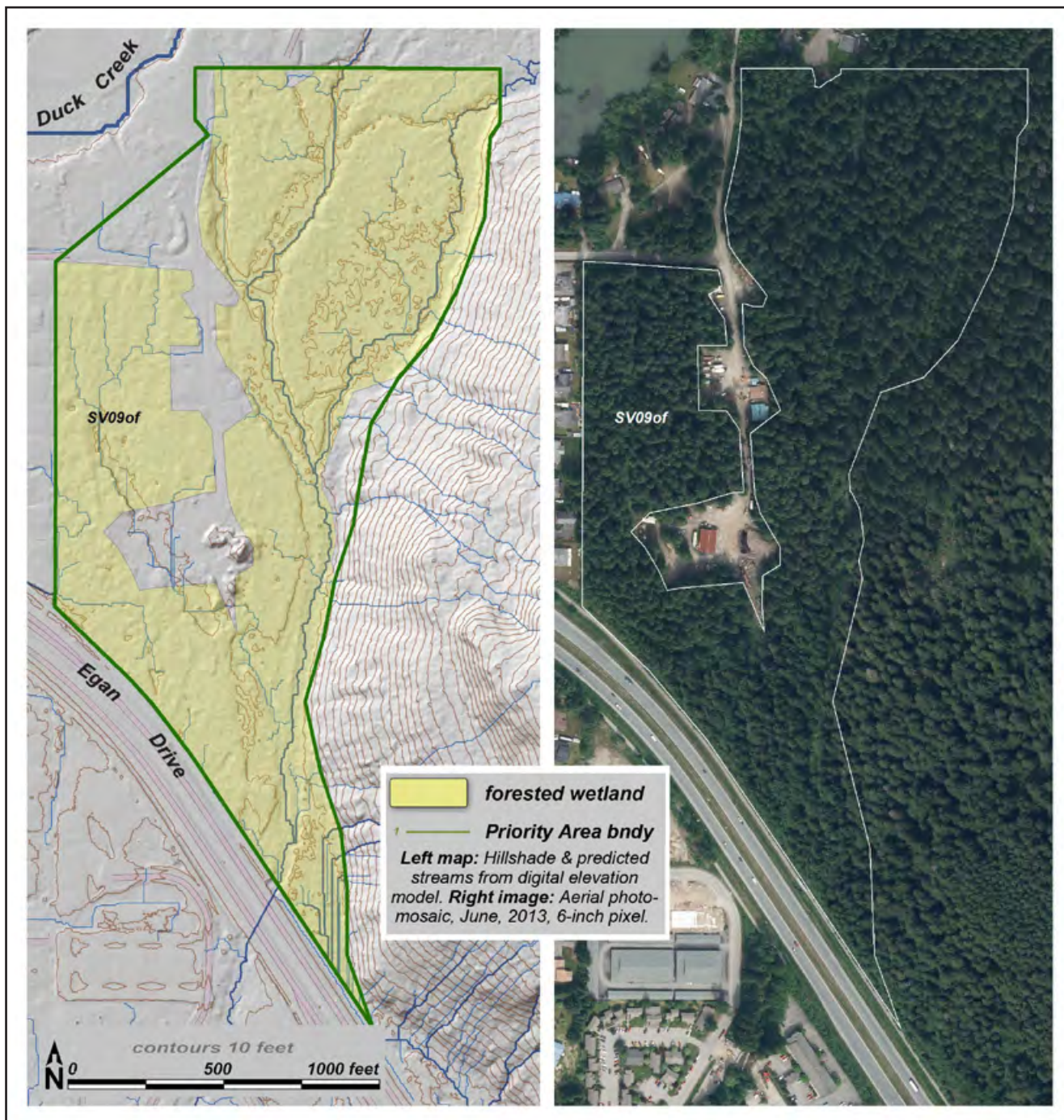
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	10.00	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	9.09	Higher	10.00	Higher
Anadromous Fish Habitat	7.33	Higher	10.00	Higher
Carbon Sequestration	4.37	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	3.87	Moderate	0.75	Lower
Organic Nutrient Export	1.96	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	5.35	Moderate
Wetland Sensitivity	N.A.	N.A.	4.81	Higher

tidal offsite scores are normalized 'against each other.' Tables above are therefore final—not awaiting the WD scores as with the non-tidal units.

SV06of • **type:** uplift meadow • **acres:** 64.55 • **boundary criteria:** w-u, type pa • **pin:**
 4B1701170011 • known or probable anadromous fish

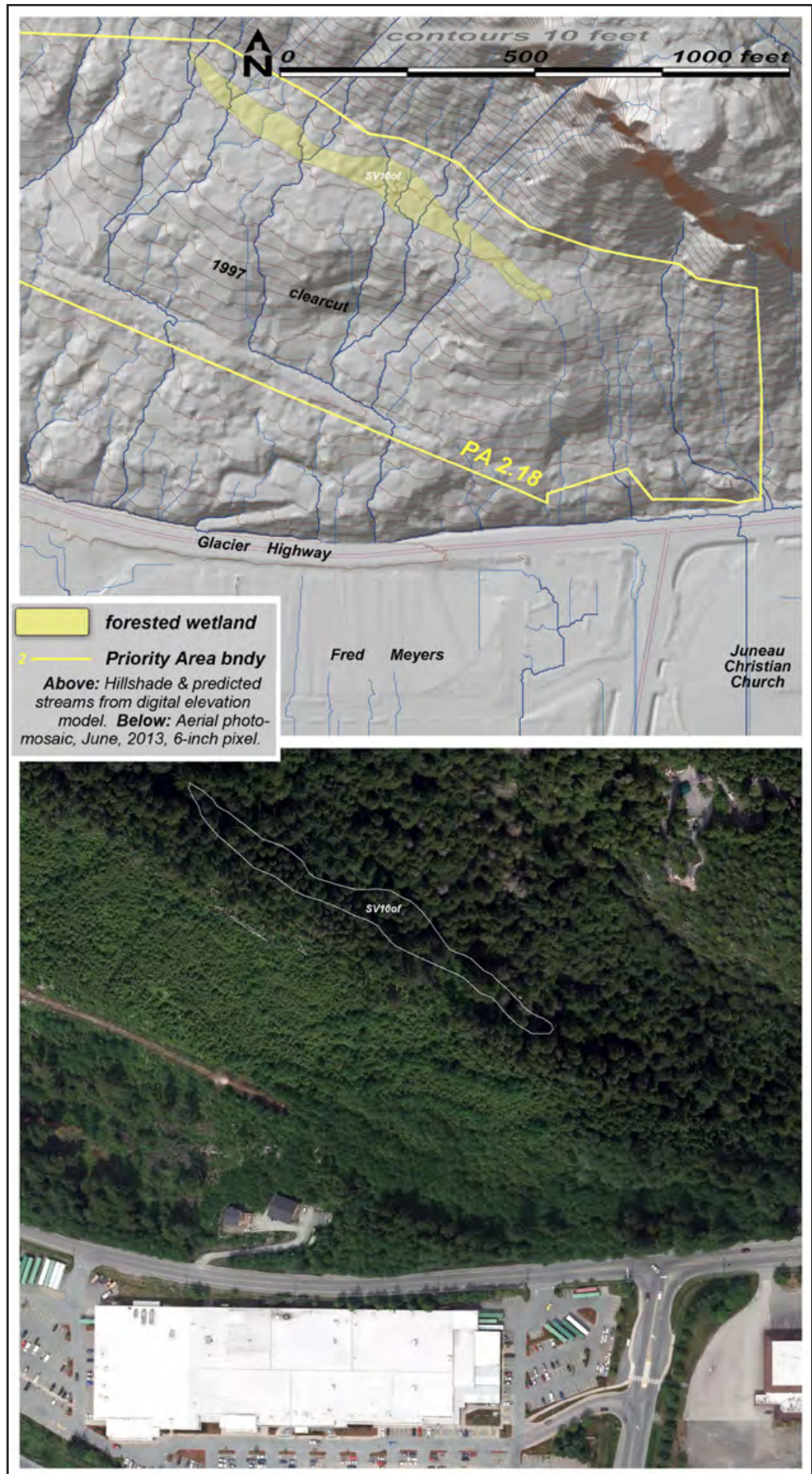
SV07of • **type:** forested peatland • **acres:** 6.08 • **boundary criteria:** w-u, type pa • **pin:**
 4B1701160020 • known or probable anadromous fish

SV08of • **type:** uplift meadow • **acres:** 1.29 • **boundary criteria:** w-u, type pa • **pin:** 4B1701160020
 • known or probable anadromous fish

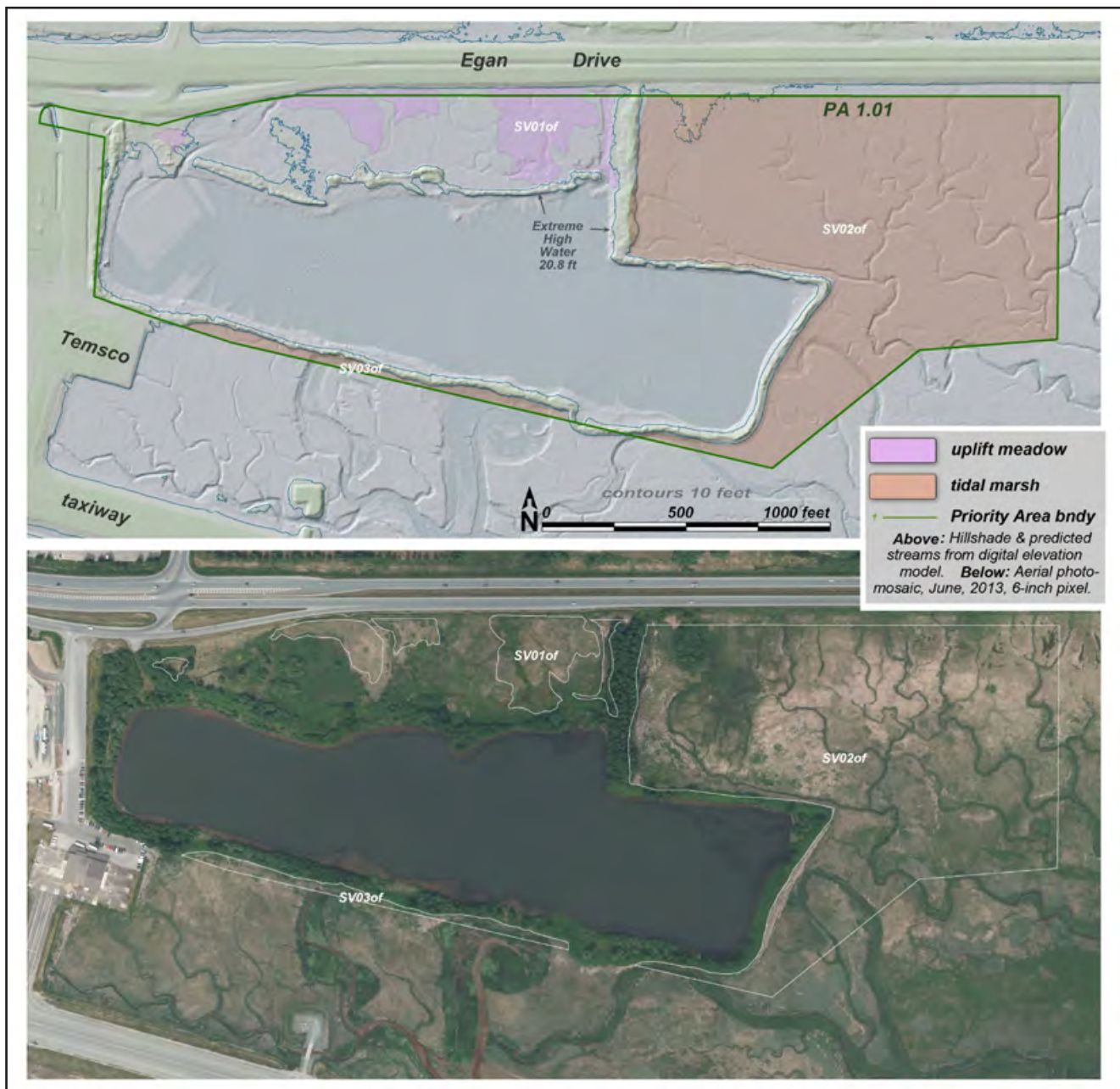


SV09of • **type:** forested peatland • **acres:** 38.37 • **boundary criteria:** w-u, pa • **pin:** 5B1501120010
 • known or probable anadromous fish

SV09of • **type:**
forested peatland
acres: 0.98 • **bound-**
ary criteria: w-u •
pin: 5B1501000010 •
no known or probable
anadromous fish



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SV02 of • **type:** tidal wetland
 • **acres:** 30.93 • **bound-**
ary criteria: w-u, pa • **pin:**
 5B1401020070 • **known or**
probable anadromous fish

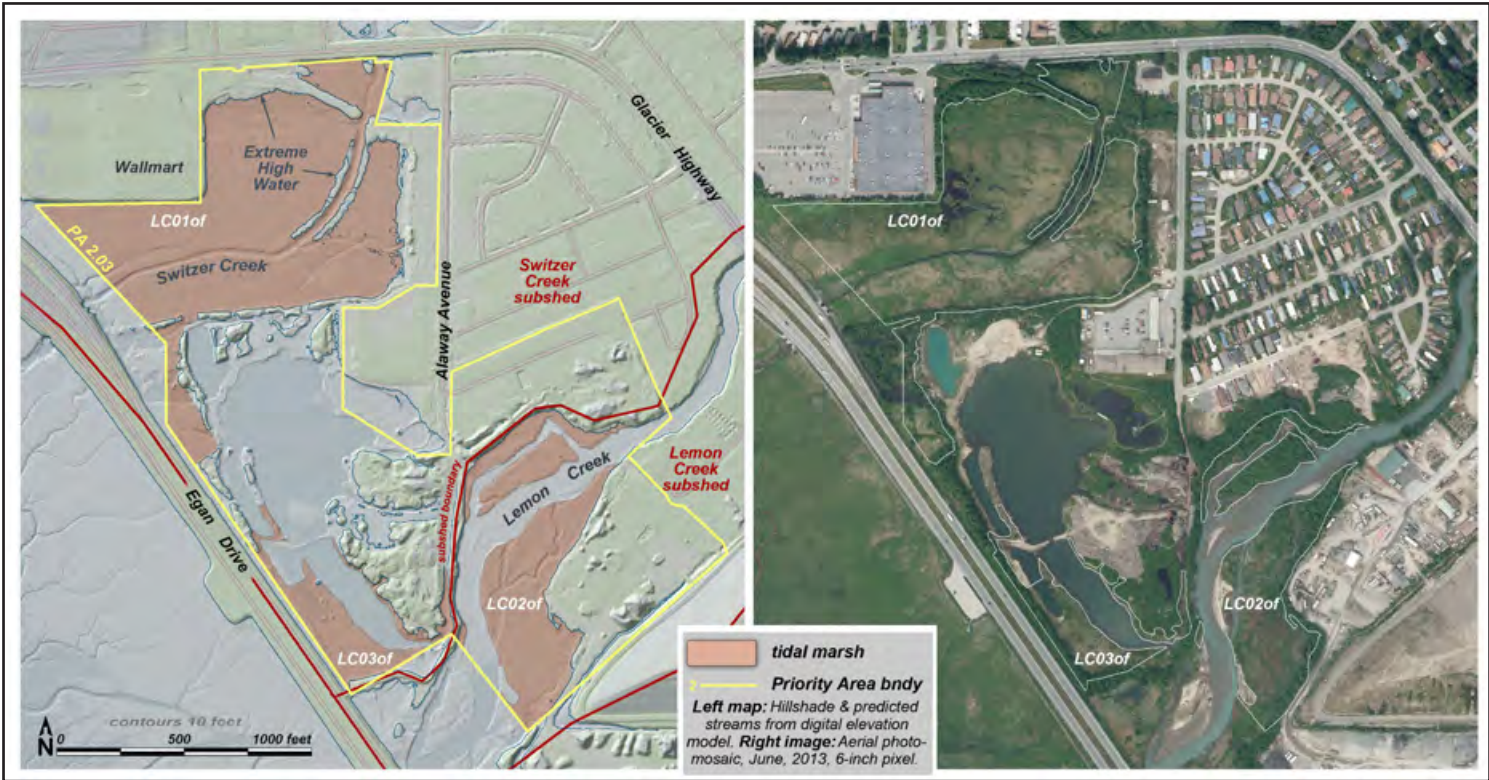
will correct in table

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	10.00	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	9.65	Higher	4.12	Higher
Sediment Retention & Stabilization	4.38	Moderate	5.69	Higher
Carbon Sequestration	4.37	Moderate	N.A.	N.A.
Organic Nutrient Export	2.40	Lower	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	7.56	Higher
Wetland Sensitivity	N.A.	N.A.	3.93	Moderate

SV03 of • **type:** tidal wetland
 • **acres:** 1.1 • **bound-**
ary criteria: w-u, pa • **pin:**
 5B1401020070 • **known or**
probable anadromous fish

will correct in table

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	9.93	Higher	4.12	Higher
Waterbird Feeding Habitat	7.67	Higher	10.00	Higher
Carbon Sequestration	3.91	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.62	Lower	5.69	Higher
Organic Nutrient Export	0.13	Lower	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	9.40	Higher
Wetland Stressors	N.A.	N.A.	6.79	Higher
Wetland Sensitivity	N.A.	N.A.	4.48	Higher



LC01 of • **type:** tidal wetland
 • **acres:** 23.81 • **bound-**
ary criteria: w-u, pa • **pin:**
 5B1301070035 37 • known or
 probable anadromous fish

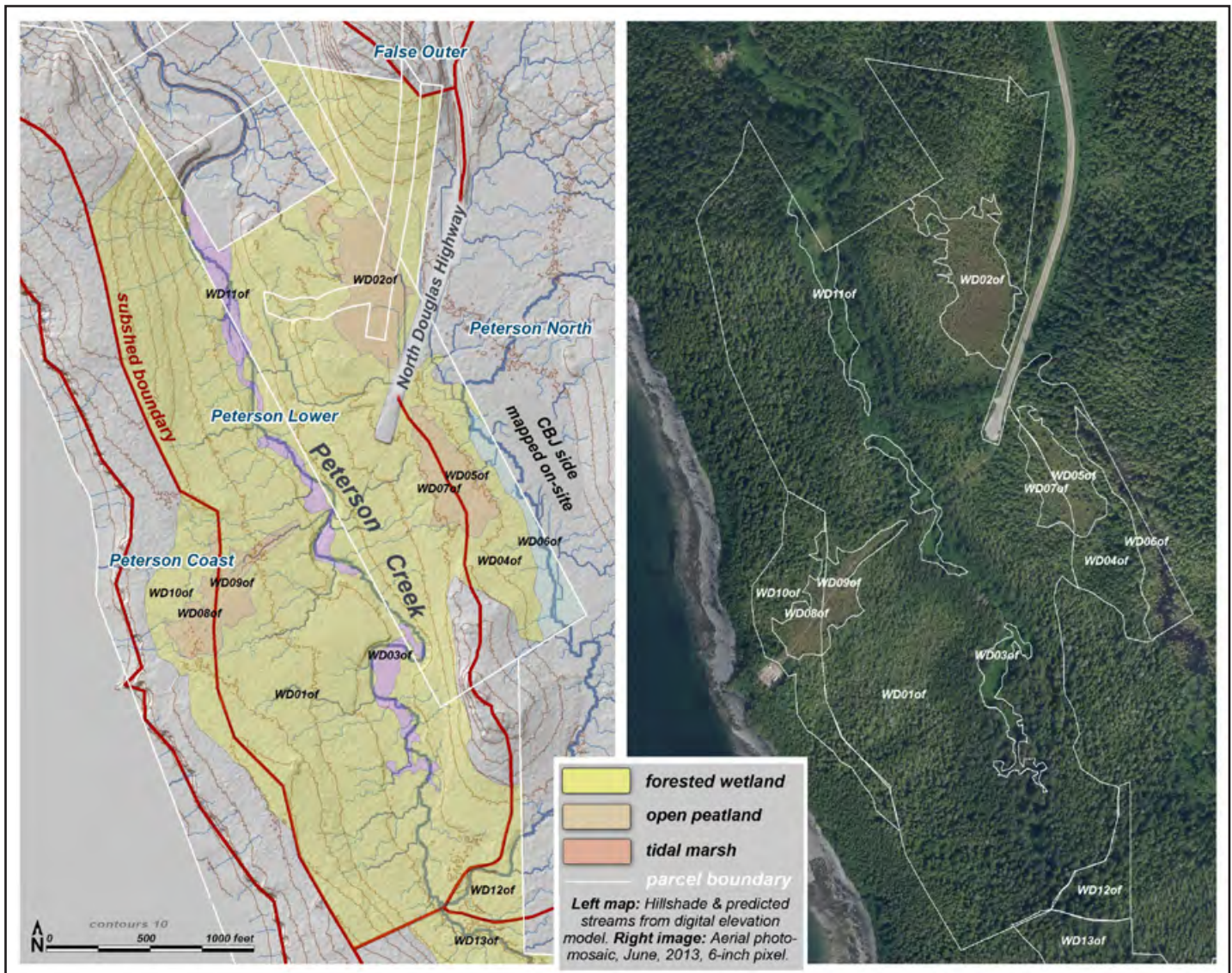
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.28	Higher	10.00	Higher
Native Plant Habitat	8.66	Higher	10.00	Higher
Carbon Sequestration	4.14	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	4.07	Moderate	10.00	Higher
Anadromous Fish Habitat	3.57	Moderate	10.00	Higher
Sediment Retention & Stabilization	1.70	Lower	2.55	Moderate
Organic Nutrient Export	1.23	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	6.27	Higher
Wetland Sensitivity	N.A.	N.A.	6.06	Higher

LC02 of • **type:** tidal wetland
 • **acres:** 8.76 • **boundary**
criteria: w-u, pa, subsh • **pin:**
 5B1201060181 5B1301190000
 • known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	7.75	Higher	N.A.	N.A.
Native Plant Habitat	7.03	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	7.01	Higher	10.00	Higher
Waterbird Feeding Habitat	5.03	Moderate	10.00	Higher
Anadromous Fish Habitat	4.85	Moderate	10.00	Higher
Organic Nutrient Export	4.46	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.89	Lower	7.83	Higher
Wetland Stressors	N.A.	N.A.	8.53	Higher
Public Use & Recognition	N.A.	N.A.	6.27	Higher
Wetland Sensitivity	N.A.	N.A.	5.75	Higher

LC03 of • **type:** tidal wetland
 • **acres:** 3.4 • **boundary**
criteria: w-u, pa, subsh • **pin:**
 5B1301070036 • known or prob-
 able anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.79	Higher	10.00	Higher
Native Plant Habitat	8.67	Higher	10.00	Higher
Carbon Sequestration	7.77	Higher	N.A.	N.A.
Anadromous Fish Habitat	5.18	Moderate	10.00	Higher
Organic Nutrient Export	3.75	Lower	N.A.	N.A.
Waterbird Feeding Habitat	1.87	Lower	10.00	Higher
Sediment Retention & Stabilization	0.30	Lower	6.14	Higher
Wetland Sensitivity	N.A.	N.A.	9.39	Higher
Wetland Stressors	N.A.	N.A.	8.22	Higher
Public Use & Recognition	N.A.	N.A.	0.90	Lower



*In the **boundary criteria** field for WD units below, “*par*” indicates the unit was split not along the priority area line (“*pa*”), but rather along the Goldbelt Inc./CBJ parcel boundary. Although we did report unit acreages to some private land owners strictly within their own properties, splitting was never a criterion for our on-site assessments; surveyed units spanned ownerships.

But in the case of these back-Douglas private lands, seaward of CBJ ownership, we performed the Goldbelt “assessments” sight-unseen, after all the on-site assessments were finished. Scores are assigned separately for the off-site units, even though many are contiguous with CBJ units of like type.

WD01of • **type:** for. peatl. • **acres:** 100.3 • **boundary criteria:** w-u, type, par,* subsh • **pin:** 3D1401000010 • known or probable anadromous fish

WD02of • **type:** open peatland • **acres:** 5.24 • **boundary criteria:** w-u, type, par • **pin:** 3D1401000010 • no known or probable anadromous fish

WD03of • **type:** uplift meadow • **acres:** 1.67 • **boundary criteria:** type • **pin:** 3D1401000020 • known or probable anadromous fish

WD04of • **type:** for. peatl. • **acres:** 6.12 • **boundary criteria:** w-u, type, par, subsh • **pin:** 3D1401000010 • known or probable anadromous fish

WD05of • **type:** open peatland • **acres:** 2.06 • **boundary criteria:** type, subsh • **pin:** 3D1401000010 • no known or probable anadromous fish

WD06of • **type:** forested peatland • **acres:** 2.91 • **boundary criteria:** type, par • **pin:** 3D1401000010 • known or probable anadromous fish

WD07of • **type:** open peatland • **acres:** 1.21 • **boundary criteria:** type, subsh • **pin:** 3D1401000010 • no known or probable anadromous fish

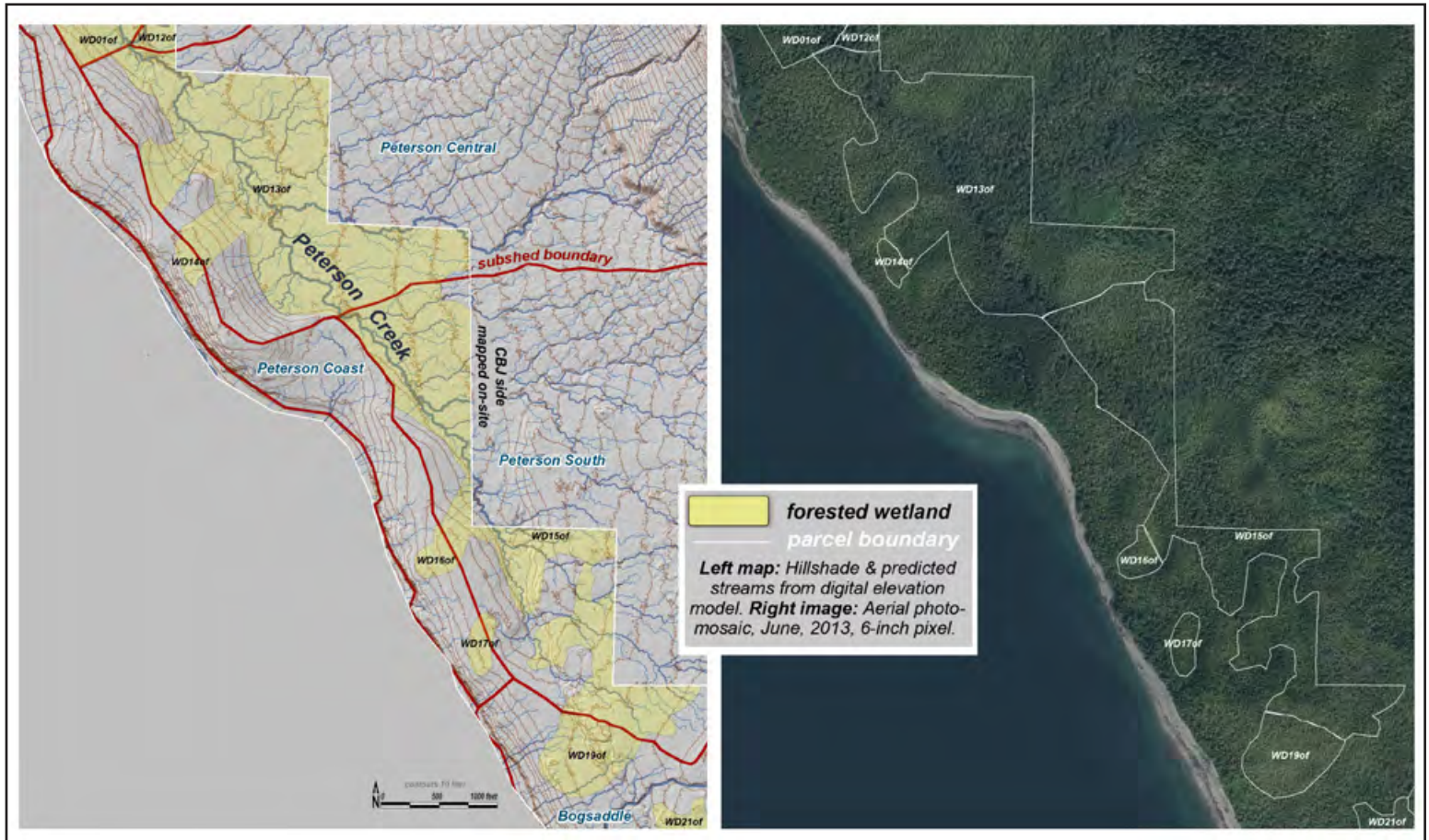
WD08of • **type:** open peatland • **acres:** 1.61 • **boundary criteria:** type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD09of • **type:** open peatland • **acres:** 1.81 • **boundary criteria:** type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD10of • **type:** for. peatl. • **acres:** 6.12 • **boundary criteria:** w-u, type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD11of • **type:** uplift meadow • **acres:** 3.1 • **boundary criteria:** type • **pin:** 3D1401000020 • known or probable anadromous fish

WD12of • **type:** forested peatland • **acres:** 2.79 • **boundary criteria:** w-u, par • **pin:** 3D1401000020 • known or probable anadromous fish



WD13of • **type:** for. peatl. • **acres:** 78.71 • **boundary criteria:** w-u, par,* subsh • **pin:** 3D1401000020 • known or probable anadromous fish

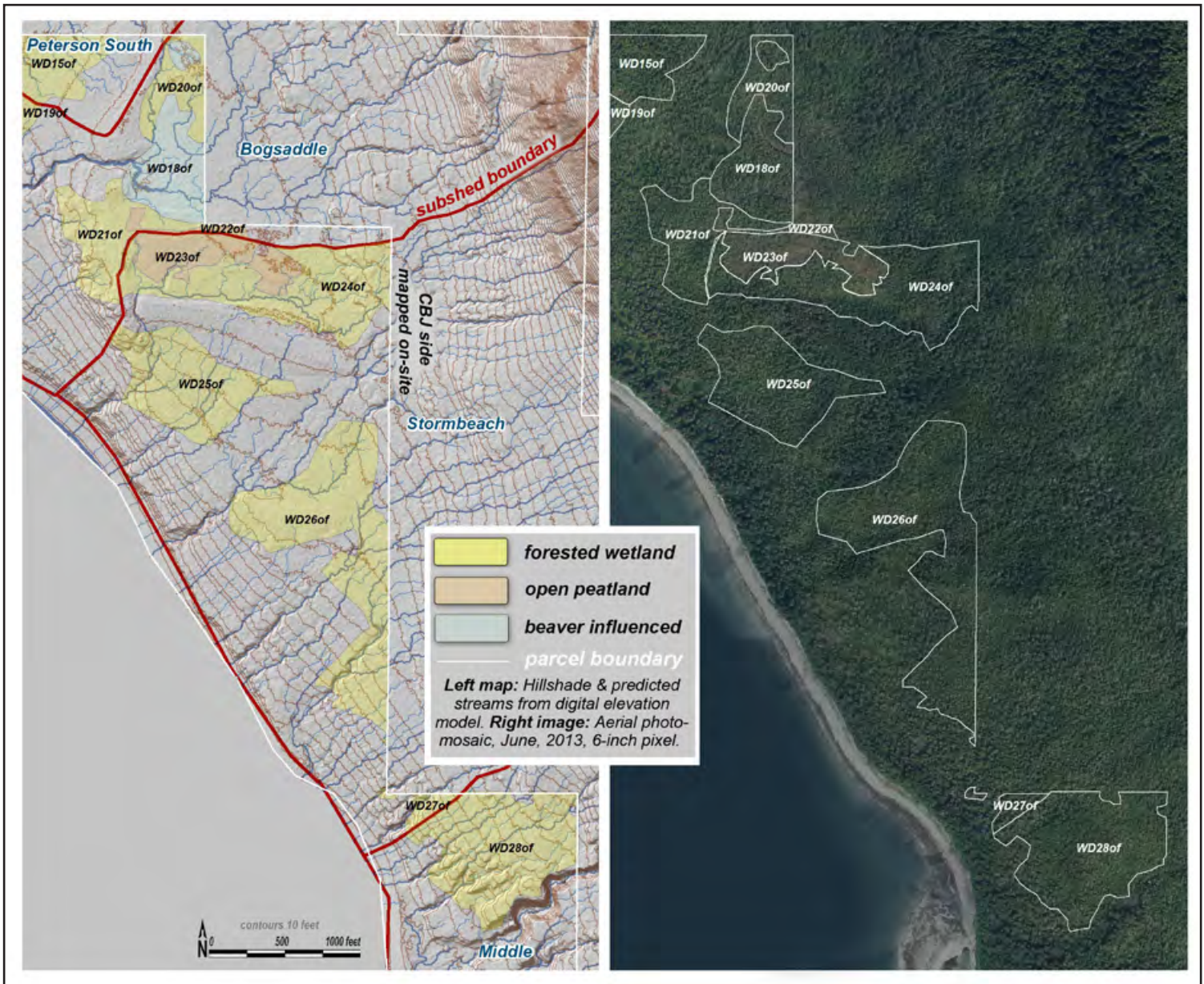
WD14of • **type:** for. peatl. • **acres:** 1.49 • **boundary criteria:** w-u, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD15of • **type:** for. peatl. • **acres:** 55.63 • **boundary criteria:** w-u, par, subsh • **pin:** 3D1401000020 • known or probable anadromous fish

WD16of • **type:** for. peatl. • **acres:** 2.54 • **boundary criteria:** w-u, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD17of • **type:** for. peatl. • **acres:** 2.44 • **boundary criteria:** w-u • **pin:** 3D1401000020 • no known or probable anadromous fish

WD19of • **type:** for. peatl. • **acres:** 10.43 • **boundary criteria:** w-u, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish



WD18of • type: beaver influenced • acres: 8.09 • boundary criteria: w-u, type, par • pin: 3D1401000020 • known or probable anadromous fish

WD20of • type: for. peatl. • acres: 4.2 • boundary criteria: w-u, type, par • pin: 3D1401000020 • no known or probable anadromous fish

WD21of • type: for. peatl. • acres: 7.42 • boundary criteria: w-u, type, subsh • pin: 3D1401000020 • no known or probable anadromous fish

WD22of • type: open peatl. • acres: 1.09 • boundary criteria: w-u, type, subsh • pin: 3D1401000020 • no known or probable anadromous fish

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WD23of • type: open peatl. • **acres:** 6.26 • **boundary criteria:** w-u, type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

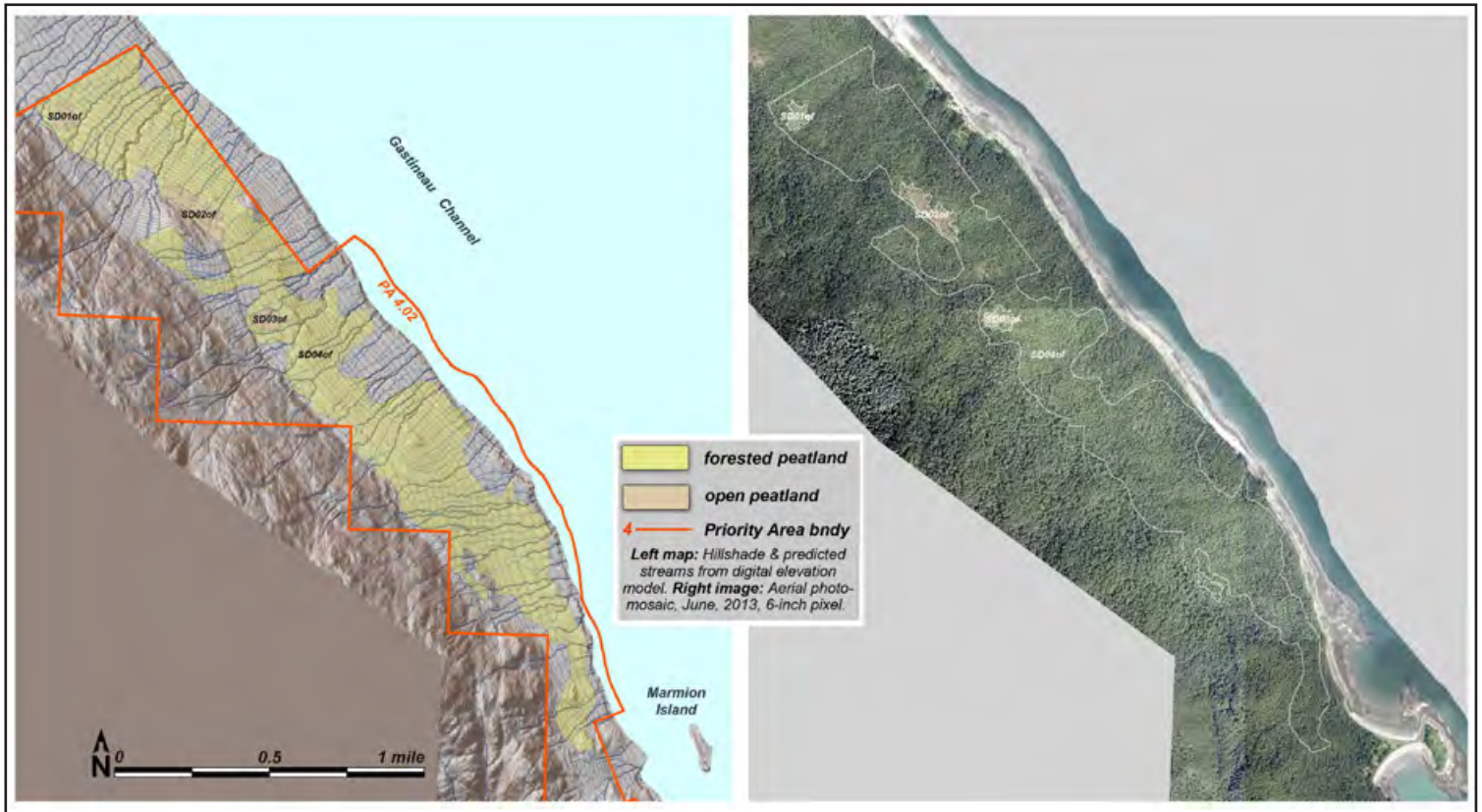
WD24of • type: for. peatl. • **acres:** 15.44 • **boundary criteria:** w-u, type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD25of • type: for. peatl. • **acres:** 12.37 • **boundary criteria:** w-u, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD26of • type: for. peatl. • **acres:** 22.53 • **boundary criteria:** w-u • **pin:** 3D1401000020 • no known or probable anadromous fish

WD27of • type: for. peatl. • **acres:** 1.29 • **boundary criteria:** w-u, par, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD28of • type: for. peatl. • **acres:** 16.62 • **boundary criteria:** w-u, par, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

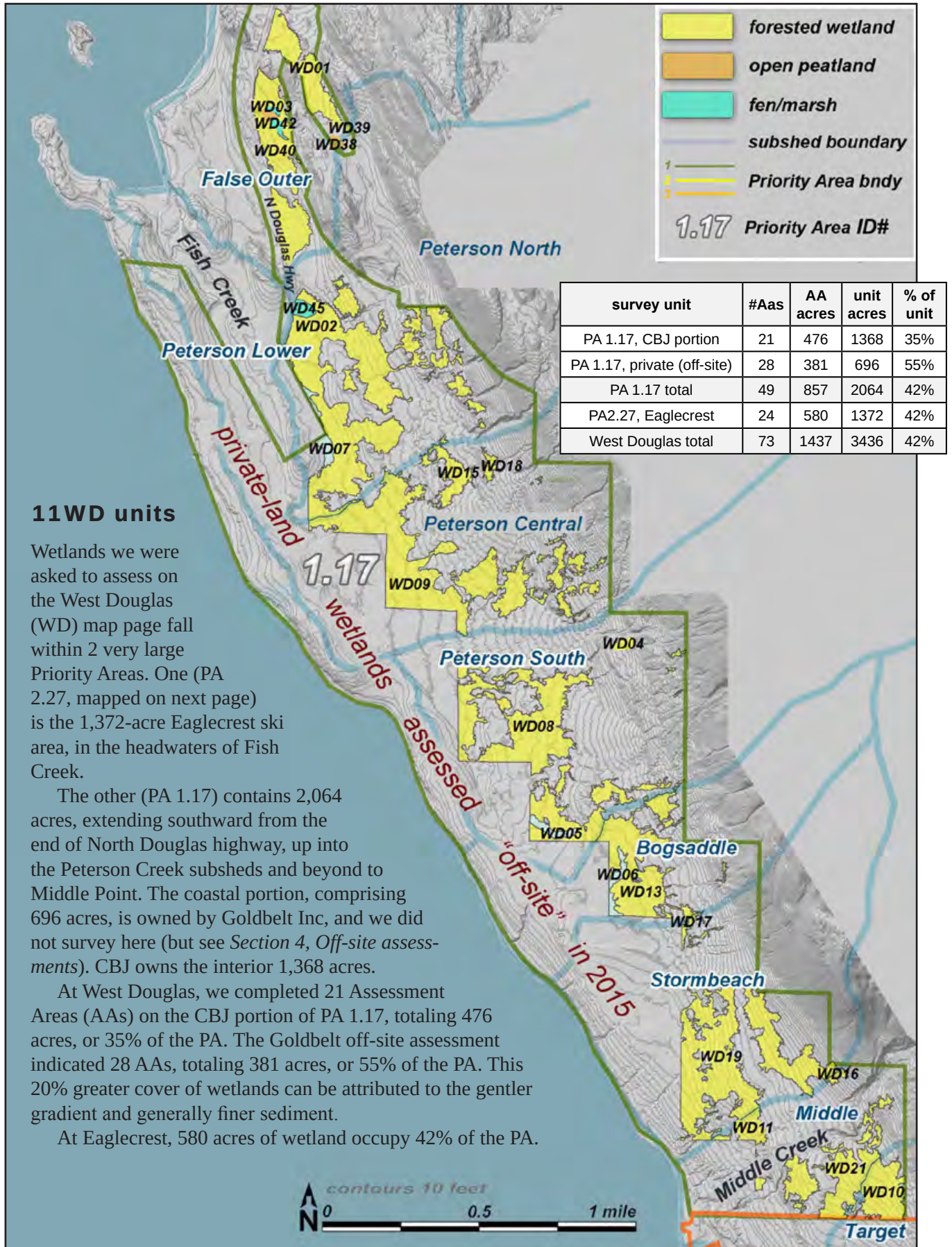


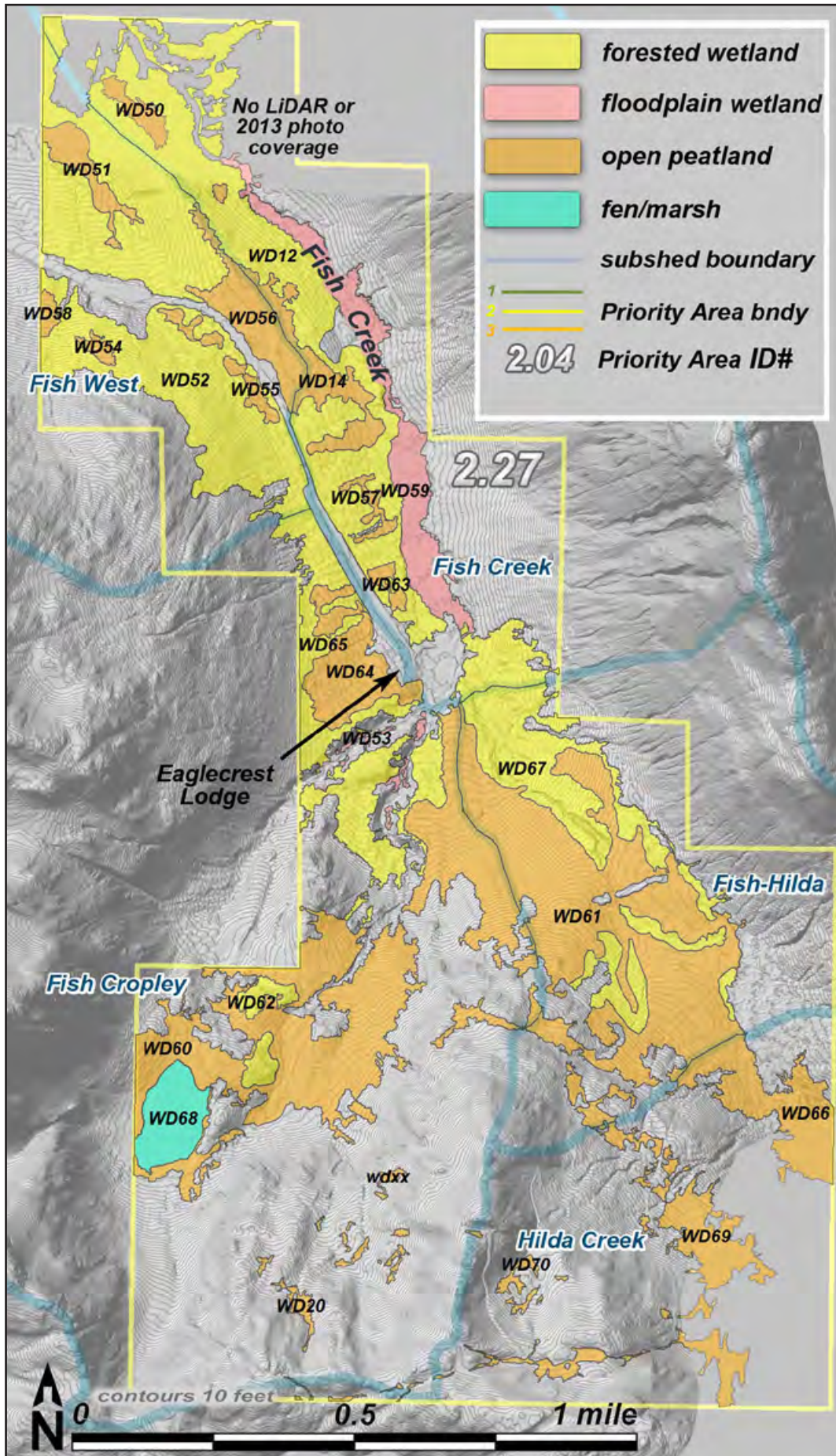
SD01of • **type:** open peatl. • **acres:** 1.56 • **boundary criteria:** type • **pin:** 3D0101000030 • no known or probable anadromous fish

SD02of • **type:** open peatl. • **acres:** 4.52 • **boundary criteria:** type • **pin:** 3D0101000030 • no known or probable anadromous fish

SD03of • **type:** open peatl. • **acres:** 2.19 • **boundary criteria:** type • **pin:** 3D0101000030 • no known or probable anadromous fish

SD04of • **type:** for. peatl. • **acres:** 243.21 • **boundary criteria:** w-u, type, pa • **pin:** 3D0101000030 • no known or probable anadromous fish



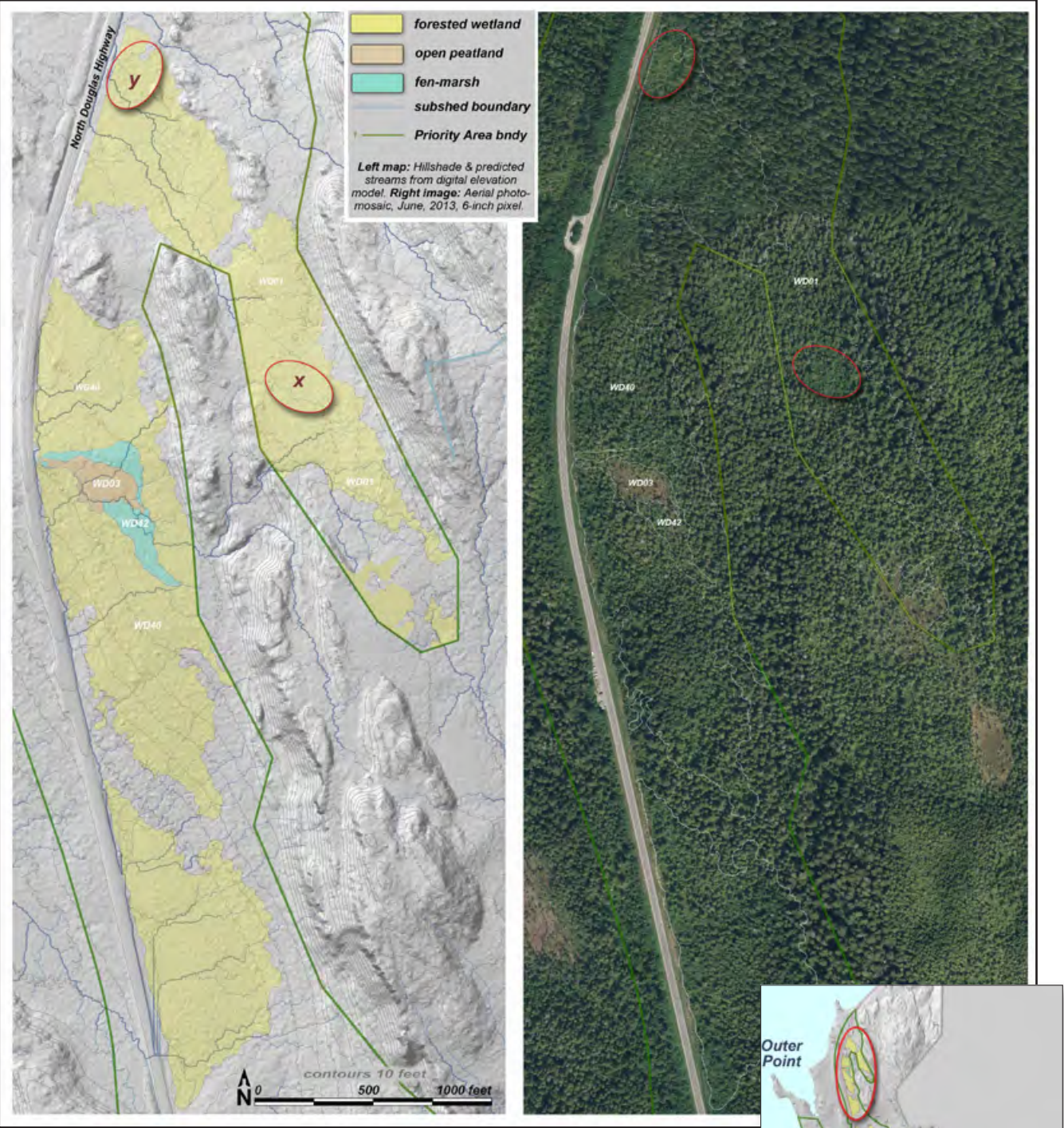


This is a somewhat misleading statistic, however. Virtually all of the low-gradient valley bottom is wetland, right up to the steeply inflecting valley walls. Even some of the mellower ski runs are wetland, as exposed muck and downslope erosion reveal in the summer season.



WD01 • **type:** forested peatland • **acres:** 17.7 • **boundary criteria:** w-u, pa • **pin:** 3D1301000010 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Phosphorus Retention	4.02	Higher	4.02	Higher
Pollinator Habitat	8.20	Higher	3.26	Moderate
Songbird, Raptor, & Mammal Habitat	8.05	Higher	3.33	Moderate
Nitrate Removal	3.28	Higher	4.75	Moderate
Native Plant Habitat	6.61	Higher	1.45	Lower
Water Cooling	5.98	Higher	1.40	Lower
Carbon Sequestration	6.56	Higher	N.A.	N.A.
Invertebrate Habitat	4.95	Moderate	1.31	Lower
Water Storage	4.31	Moderate	1.11	Lower
Waterbird Nesting Habitat	4.11	Moderate	0.00	Lower
Amphibian Habitat	3.80	Moderate	3.37	Lower
Water Warming	3.15	Moderate	1.44	Lower
Organic Nutrient Export	7.54	Moderate	N.A.	N.A.
Stream Flow Support	2.27	Lower	2.22	Moderate
Sediment Retention & Stabilization	2.08	Lower	2.80	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.77	Moderate
Wetland Stressors	N.A.	N.A.	6.39	Moderate
Wetland Risk	N.A.	N.A.	4.96	Moderate
Public Use & Recognition	N.A.	N.A.	2.51	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.19	Lower

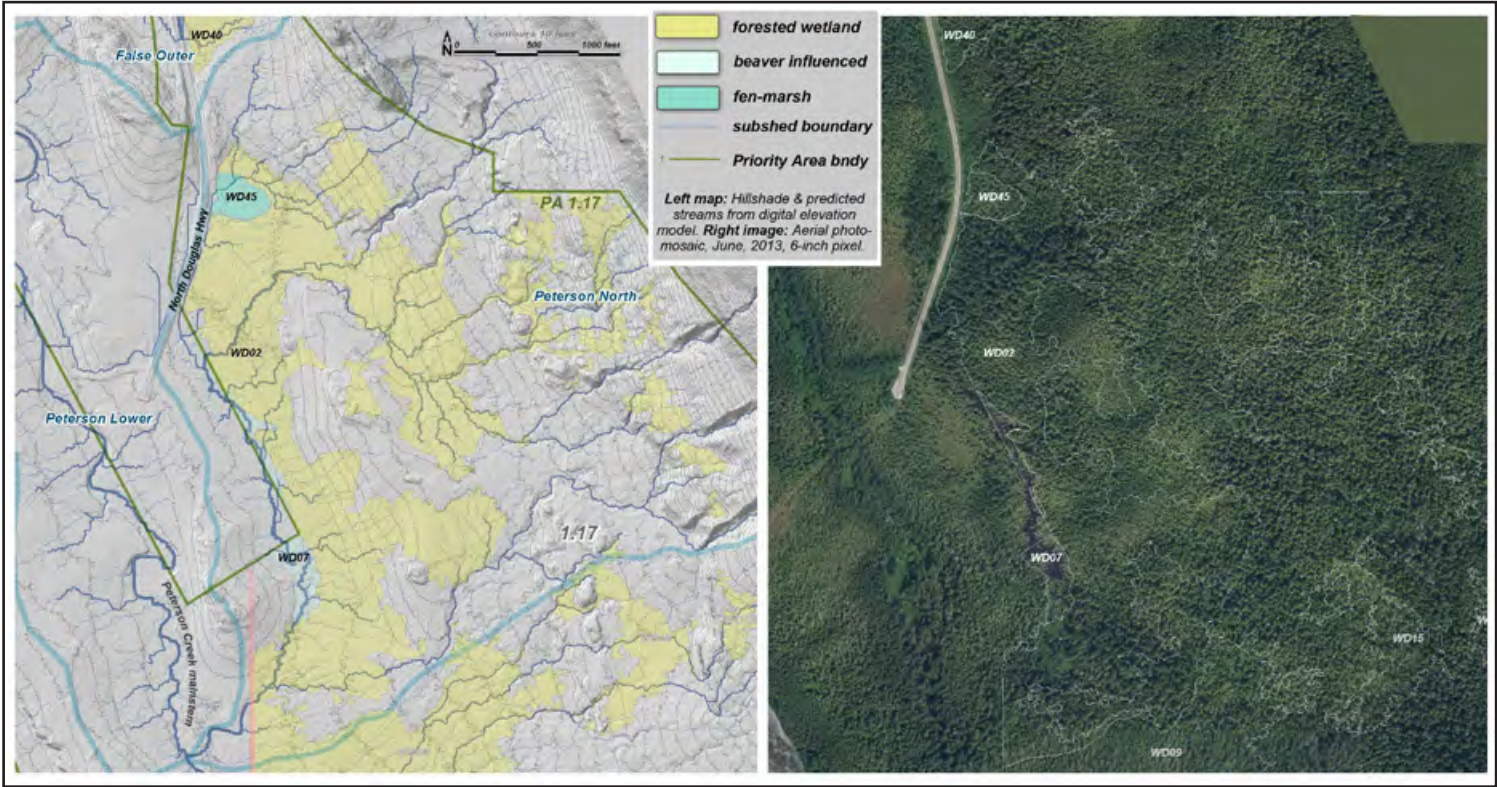


Unit maps for WD01 03 40 42

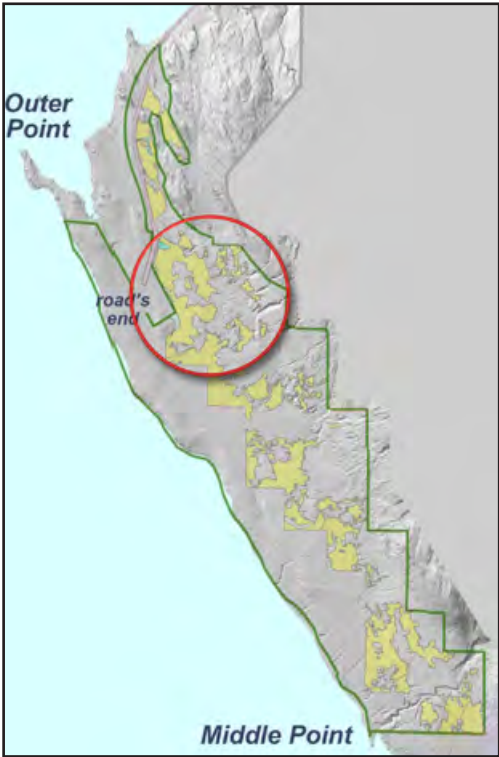


WD02 • **type:** for. peatland
 • **acres:** 96.7 • **boundary**
criteria: w-u, pa, type, subsh •
pin: 3D1301000010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	5.75	Higher	7.26	Higher
Phosphorus Retention	4.39	Higher	4.39	Higher
Anadromous Fish Habitat	9.68	Higher	3.08	Moderate
Songbird, Raptor, & Mammal Habitat	8.38	Higher	3.33	Moderate
Resident Fish Habitat	8.36	Higher	3.27	Moderate
Pollinator Habitat	8.00	Higher	3.26	Moderate
Native Plant Habitat	7.05	Higher	3.67	Moderate
Invertebrate Habitat	6.29	Higher	4.39	Moderate
Waterbird Nesting Habitat	6.27	Higher	0.00	Lower
Organic Nutrient Export	8.54	Higher	N.A.	N.A.
Carbon Sequestration	6.09	Higher	N.A.	N.A.
Water Storage	4.70	Moderate	10.00	Higher
Stream Flow Support	4.54	Moderate	8.72	Higher
Water Warming	3.87	Moderate	6.00	Higher
Nitrate Removal	2.14	Moderate	6.82	Higher
Sediment Retention & Stabilization	3.07	Moderate	3.93	Moderate
Amphibian Habitat	3.05	Moderate	3.65	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	4.40	Moderate
Wetland Stressors	N.A.	N.A.	3.46	Lower
Wetland Risk	N.A.	N.A.	2.85	Lower
Wetland Sensitivity	N.A.	N.A.	2.20	Lower
Public Use & Recognition	N.A.	N.A.	1.98	Lower



Unit maps for WD02 07 45





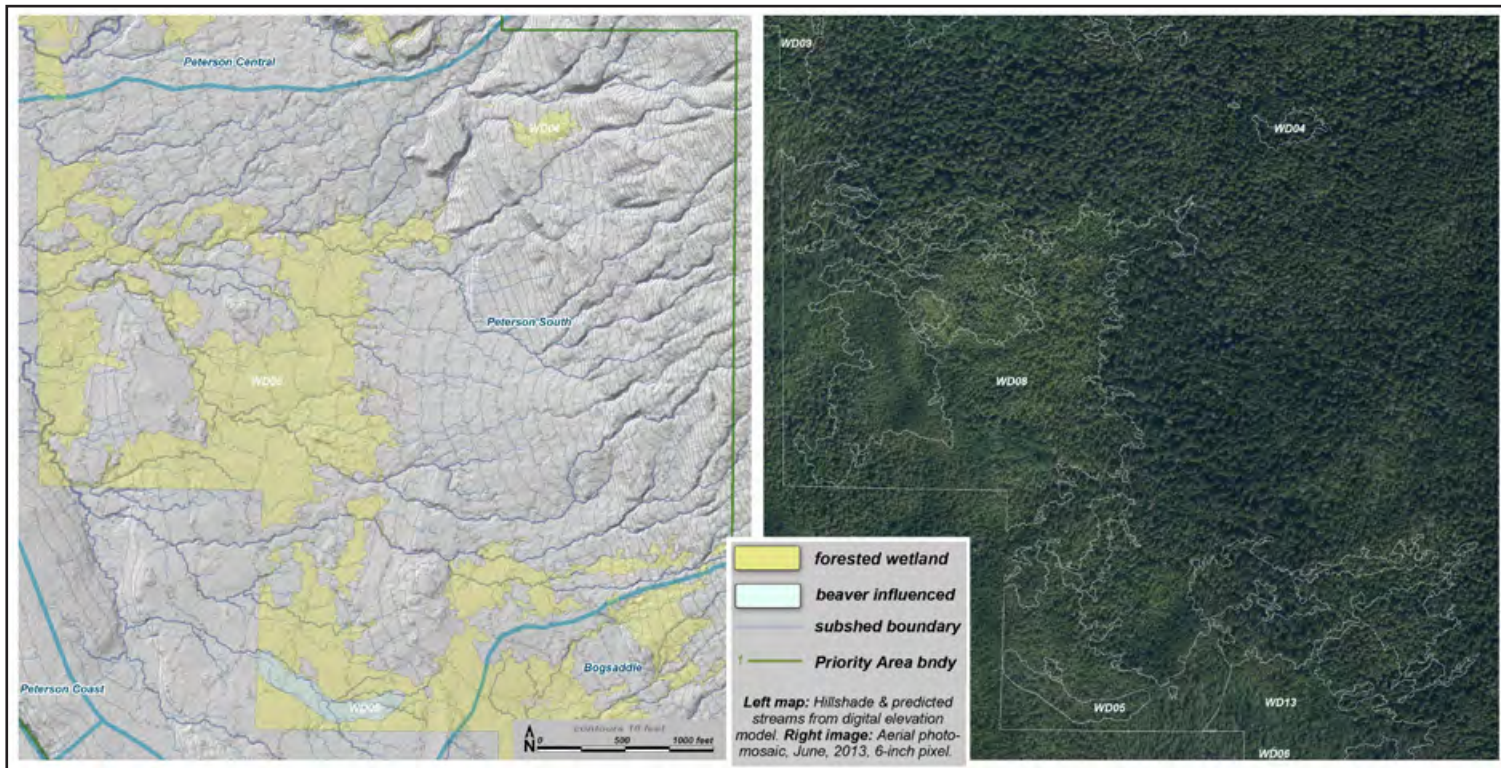
WD03 • **type:** open peatland • **acres:** 1.0 • **boundary criteria:** type • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.92	Higher	4.93	Moderate
Pollinator Habitat	7.05	Higher	3.26	Moderate
Native Plant Habitat	6.25	Higher	1.08	Lower
Water Storage	5.38	Higher	1.11	Lower
Carbon Sequestration	6.93	Higher	N.A.	N.A.
Waterbird Feeding Habitat	5.03	Moderate	6.94	Higher
Waterbird Nesting Habitat	4.45	Moderate	9.70	Moderate
Water Warming	4.33	Moderate	4.36	Moderate
Phosphorus Retention	3.83	Moderate	3.83	Moderate
Sediment Retention & Stabilization	2.90	Moderate	2.75	Moderate
Nitrate Removal	2.12	Moderate	4.49	Moderate
Water Cooling	3.54	Moderate	1.40	Lower
Invertebrate Habitat	3.36	Moderate	1.80	Lower
Organic Nutrient Export	6.04	Moderate	N.A.	N.A.
Amphibian Habitat	1.93	Lower	6.70	Higher
Stream Flow Support	2.90	Lower	1.90	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.81	Higher
Wetland Stressors	N.A.	N.A.	6.70	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.60	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Public Use & Recognition	N.A.	N.A.	1.69	Lower

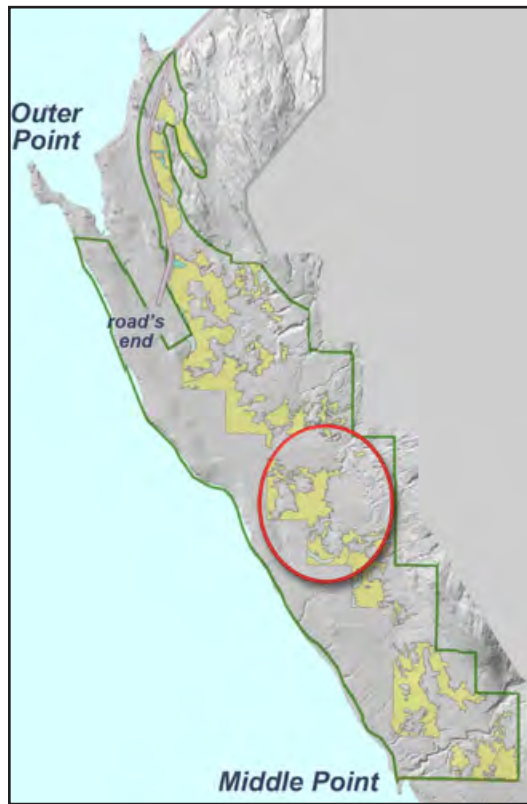


WD04 • **type:** forested peatland • **acres:** 1.2 • **boundary criteria:** type • **pin:** 3D1301000010 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	5.94	Higher	2.13	Moderate
Songbird, Raptor, & Mammal Habitat	7.74	Higher	2.22	Lower
Native Plant Habitat	5.83	Higher	0.54	Lower
Organic Nutrient Export	8.01	Higher	N.A.	N.A.
Stream Flow Support	3.51	Moderate	4.88	Higher
Pollinator Habitat	5.38	Moderate	3.15	Moderate
Water Warming	4.62	Moderate	4.54	Moderate
Sediment Retention & Stabilization	2.39	Moderate	3.81	Moderate
Nitrate Removal	2.29	Moderate	4.75	Moderate
Resident Fish Habitat	6.05	Moderate	1.15	Lower
Water Storage	4.32	Moderate	1.11	Lower
Anadromous Fish Habitat	4.18	Moderate	1.25	Lower
Amphibian Habitat	3.92	Moderate	3.11	Lower
Phosphorus Retention	1.90	Lower	1.90	Lower
Invertebrate Habitat	0.70	Lower	2.29	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	3.53	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.91	Moderate
Wetland Stressors	N.A.	N.A.	2.98	Lower
Wetland Risk	N.A.	N.A.	2.12	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower



Unit maps for WD04 05 08



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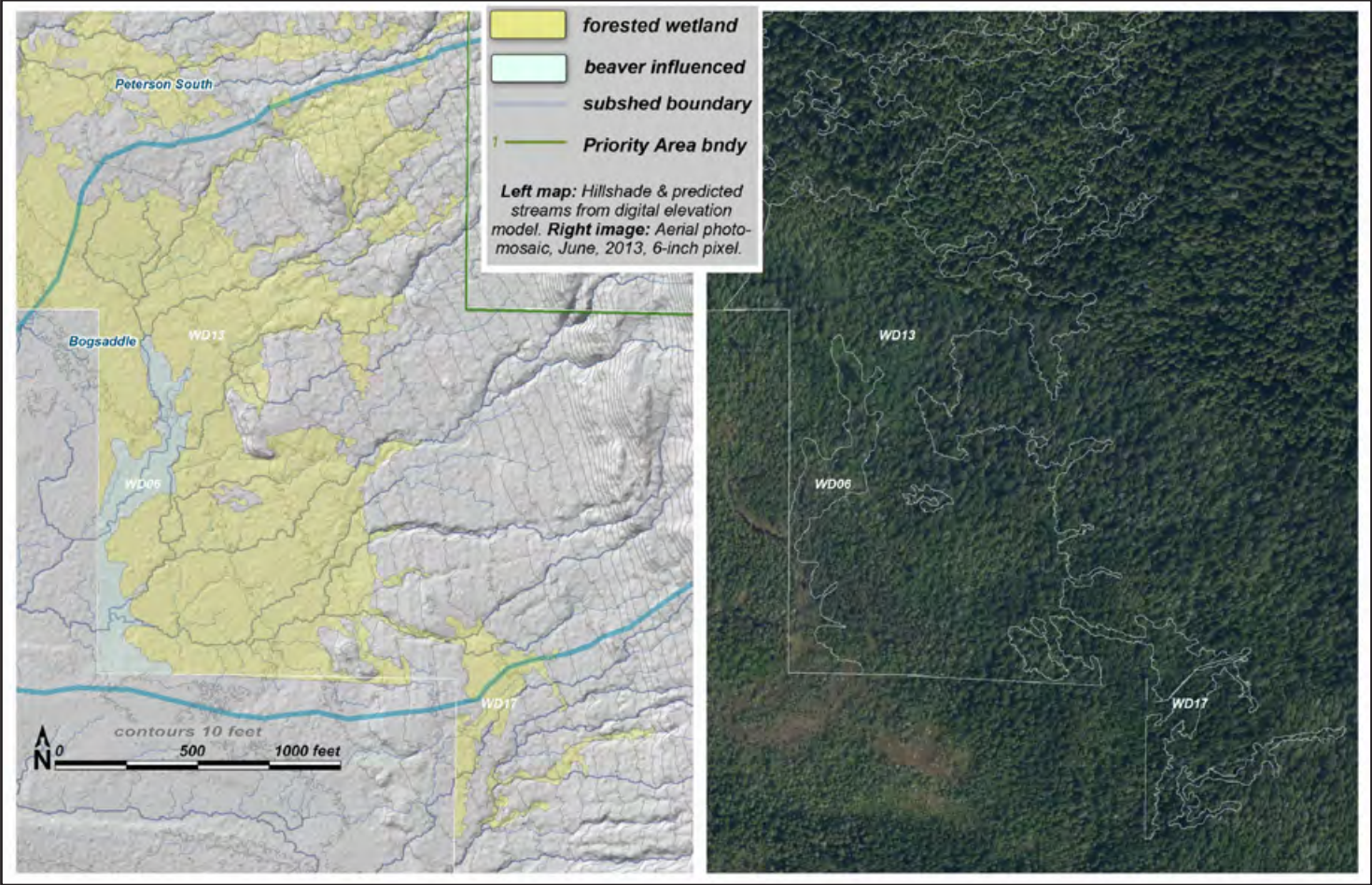
WD05 • **type:** beaver influenced • **acres:** 2.6 • **boundary criteria:** type • **pin:** 3D1301000010 •
known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	8.72	Higher	6.76	Higher
Resident Fish Habitat	8.57	Higher	6.17	Higher
Stream Flow Support	6.05	Higher	8.87	Higher
Water Warming	5.59	Higher	7.10	Higher
Phosphorus Retention	4.41	Higher	4.41	Higher
Anadromous Fish Habitat	9.55	Higher	5.34	Moderate
Waterbird Feeding Habitat	7.83	Higher	4.23	Moderate
Waterbird Nesting Habitat	7.46	Higher	9.50	Moderate
Invertebrate Habitat	6.90	Higher	5.79	Moderate
Pollinator Habitat	6.85	Higher	3.19	Moderate
Native Plant Habitat	8.32	Higher	0.33	Lower
Organic Nutrient Export	8.50	Higher	N.A.	N.A.
Water Cooling	4.44	Moderate	7.64	Higher
Nitrate Removal	2.18	Moderate	6.06	Higher
Songbird, Raptor, & Mammal Habitat	5.70	Moderate	4.04	Moderate
Sediment Retention & Stabilization	1.61	Lower	2.07	Moderate
Water Storage	1.83	Lower	1.11	Lower
Carbon Sequestration	2.73	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.77	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.17	Moderate
Wetland Stressors	N.A.	N.A.	2.98	Lower
Wetland Risk	N.A.	N.A.	2.23	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower

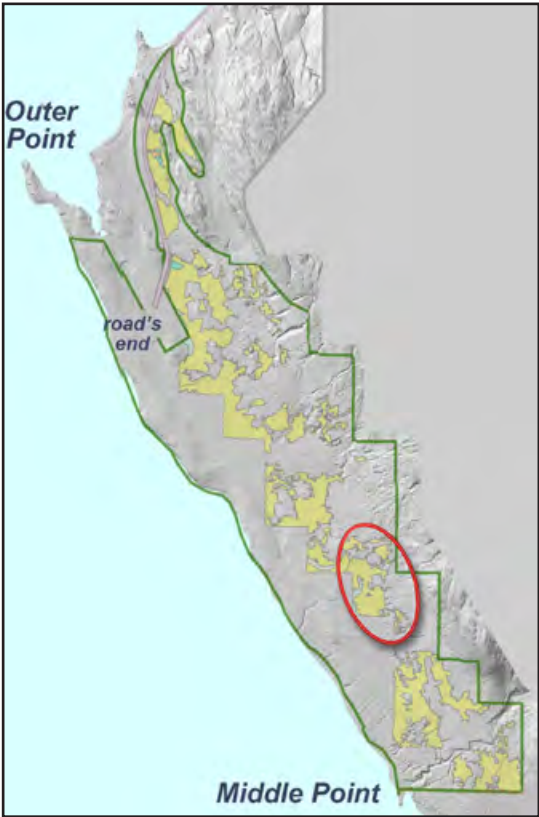


WD06 • **type:** beaver influenced • **acres:** 3.4 • **boundary criteria:** type, pa • **pin:** 3D1301000010 • known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	8.70	Higher	6.95	Higher
Resident Fish Habitat	8.48	Higher	6.09	Higher
Stream Flow Support	6.05	Higher	8.95	Higher
Water Cooling	5.40	Higher	7.75	Higher
Phosphorus Retention	4.34	Higher	4.34	Higher
Anadromous Fish Habitat	9.80	Higher	5.28	Moderate
Waterbird Feeding Habitat	7.74	Higher	4.23	Moderate
Waterbird Nesting Habitat	7.44	Higher	9.50	Moderate
Invertebrate Habitat	7.03	Higher	5.85	Moderate
Pollinator Habitat	6.85	Higher	3.19	Moderate
Native Plant Habitat	10.00	Higher	0.33	Lower
Organic Nutrient Export	8.07	Higher	N.A.	N.A.
Water Warming	4.33	Moderate	7.10	Higher
Nitrate Removal	2.74	Moderate	6.06	Higher
Songbird, Raptor, & Mammal Habitat	6.01	Moderate	4.04	Moderate
Sediment Retention & Stabilization	3.60	Moderate	2.16	Moderate
Water Storage	4.20	Moderate	1.11	Lower
Carbon Sequestration	3.26	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.77	Moderate
Wetland Stressors	N.A.	N.A.	2.98	Lower
Wetland Ecological Condition	N.A.	N.A.	2.35	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower
Wetland Risk	N.A.	N.A.	1.42	Lower



Unit maps for WD06 13 17





WD07 • **type:** beaver influenced
 • **acres:** 3.5 • **boundary criteria:**
 type, pa • **pin:** 3D1301000010 •
 known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	9.31	Higher	6.58	Higher
Waterbird Nesting Habitat	8.52	Higher	10.00	Higher
Invertebrate Habitat	8.49	Higher	10.00	Higher
Native Plant Habitat	8.14	Higher	8.19	Higher
Pollinator Habitat	7.74	Higher	8.72	Higher
Stream Flow Support	7.31	Higher	9.45	Higher
Water Warming	6.30	Higher	7.52	Higher
Amphibian Habitat	6.10	Higher	8.33	Higher
Water Storage	5.51	Higher	10.00	Higher
Phosphorus Retention	5.37	Higher	5.37	Higher
Nitrate Removal	4.63	Higher	6.57	Higher
Anadromous Fish Habitat	9.59	Higher	5.70	Moderate
Waterbird Feeding Habitat	8.35	Higher	5.00	Moderate
Sediment Retention & Stabilization	5.02	Higher	2.82	Moderate
Songbird, Raptor, & Mammal Habitat	5.99	Moderate	9.00	Higher
Water Cooling	3.77	Moderate	7.65	Higher
Organic Nutrient Export	6.61	Moderate	N.A.	N.A.
Carbon Sequestration	4.90	Moderate	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	5.23	Moderate
Wetland Sensitivity	N.A.	N.A.	4.44	Lower
Wetland Stressors	N.A.	N.A.	1.71	Lower
Wetland Risk	N.A.	N.A.	1.36	Lower
Public Use & Recognition	N.A.	N.A.	0.68	Lower

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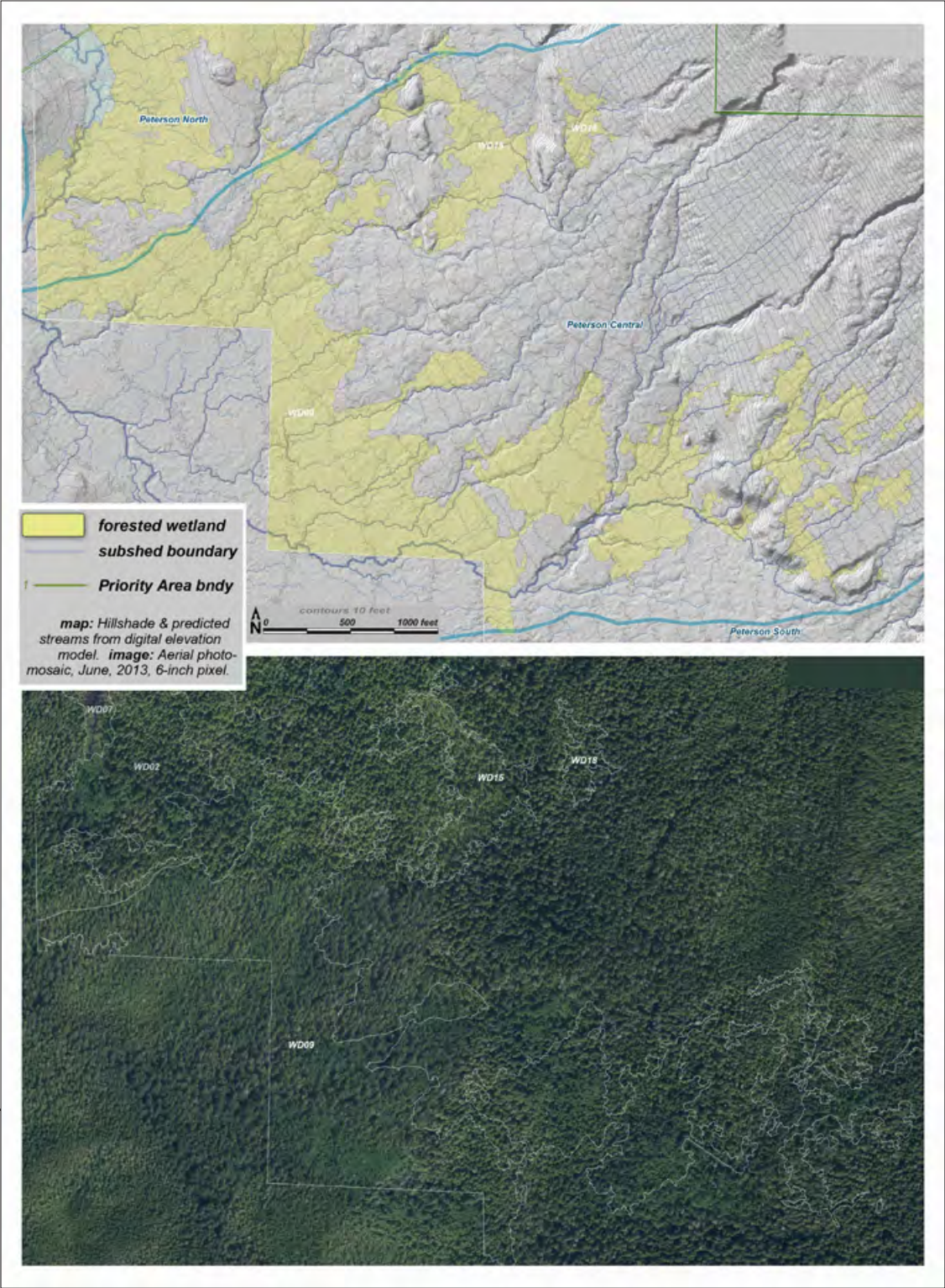
WD08 • **type:** forested peatland • **acres:** 71.5 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • **known or probable anadromous fish**

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	5.49	Higher	7.55	Higher
Nitrate Removal	4.23	Higher	6.31	Higher
Pollinator Habitat	7.30	Higher	3.15	Moderate
Anadromous Fish Habitat	9.34	Higher	1.25	Lower
Resident Fish Habitat	7.56	Higher	1.15	Lower
Amphibian Habitat	5.67	Higher	1.44	Lower
Organic Nutrient Export	9.02	Higher	N.A.	N.A.
Stream Flow Support	3.78	Moderate	7.99	Higher
Water Warming	3.28	Moderate	7.46	Higher
Invertebrate Habitat	4.59	Moderate	3.86	Moderate
Phosphorus Retention	3.70	Moderate	3.70	Moderate
Sediment Retention & Stabilization	3.47	Moderate	2.70	Moderate
Songbird, Raptor, & Mammal Habitat	5.73	Moderate	2.22	Lower
Waterbird Nesting Habitat	4.69	Moderate	0.00	Lower
Native Plant Habitat	4.45	Moderate	0.29	Lower
Water Storage	3.98	Moderate	1.11	Lower
Carbon Sequestration	5.43	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Ecological Condition	N.A.	N.A.	4.33	Moderate
Wetland Stressors	N.A.	N.A.	2.90	Lower
Wetland Risk	N.A.	N.A.	2.23	Lower
Public Use & Recognition	N.A.	N.A.	0.51	Lower



WD09 • **type:** forested peatland • **acres:** 79.6 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.22	Higher	3.26	Moderate
Native Plant Habitat	5.35	Higher	0.43	Lower
Carbon Sequestration	8.03	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	6.10	Moderate	3.33	Moderate
Resident Fish Habitat	5.76	Moderate	2.69	Moderate
Nitrate Removal	2.41	Moderate	3.54	Moderate
Water Cooling	4.60	Moderate	0.53	Lower
Sediment Retention & Stabilization	3.99	Moderate	0.23	Lower
Invertebrate Habitat	3.46	Moderate	1.07	Lower
Organic Nutrient Export	6.83	Moderate	N.A.	N.A.
Water Storage	1.02	Lower	10.00	Higher
Stream Flow Support	1.34	Lower	3.86	Moderate
Phosphorus Retention	1.79	Lower	1.79	Lower
Amphibian Habitat	1.70	Lower	1.75	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Wetland Stressors	N.A.	N.A.	2.91	Lower
Wetland Ecological Condition	N.A.	N.A.	2.26	Lower
Public Use & Recognition	N.A.	N.A.	1.32	Lower
Wetland Risk	N.A.	N.A.	1.31	Lower

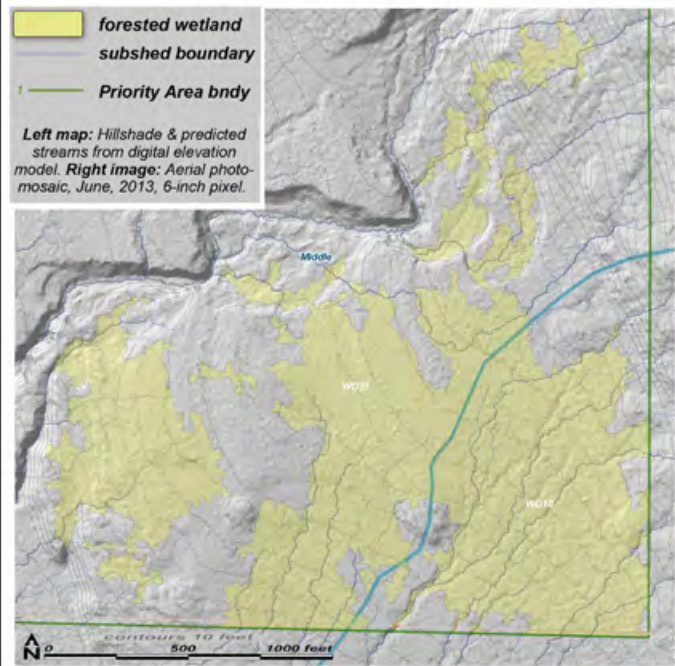


Unit maps for WD09 15 18

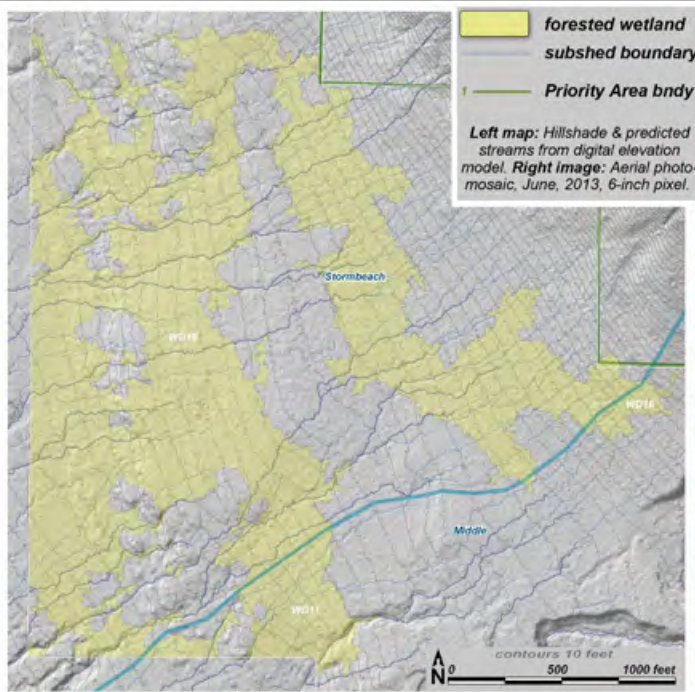


WD10 • **type:** forested peatland • **acres:** 14.9 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.48	Higher	3.15	Moderate
Stream Flow Support	7.28	Higher	3.88	Moderate
Water Cooling	5.87	Higher	3.51	Moderate
Songbird, Raptor, & Mammal Habitat	8.24	Higher	2.22	Lower
Organic Nutrient Export	8.09	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	6.57	Higher
Phosphorus Retention	2.96	Moderate	2.96	Moderate
Nitrate Removal	2.43	Moderate	4.75	Moderate
Resident Fish Habitat	6.51	Moderate	1.15	Lower
Amphibian Habitat	4.61	Moderate	3.53	Lower
Native Plant Habitat	4.58	Moderate	1.60	Lower
Waterbird Nesting Habitat	3.72	Moderate	0.00	Lower
Water Storage	3.19	Moderate	1.11	Lower
Carbon Sequestration	5.11	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.46	Lower	3.81	Moderate
Invertebrate Habitat	2.29	Lower	2.37	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Stressors	N.A.	N.A.	6.35	Moderate
Wetland Risk	N.A.	N.A.	5.71	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.95	Moderate
Public Use & Recognition	N.A.	N.A.	0.39	Lower



Unit maps for WD10 21



Unit maps for WD11 16 19





WD11 • **type:** forested peatland • **acres:** 5.8 • **boundary criteria:** w-u, subsh • **pin:** 3D1301000010
 • no known or probable anadromous fish

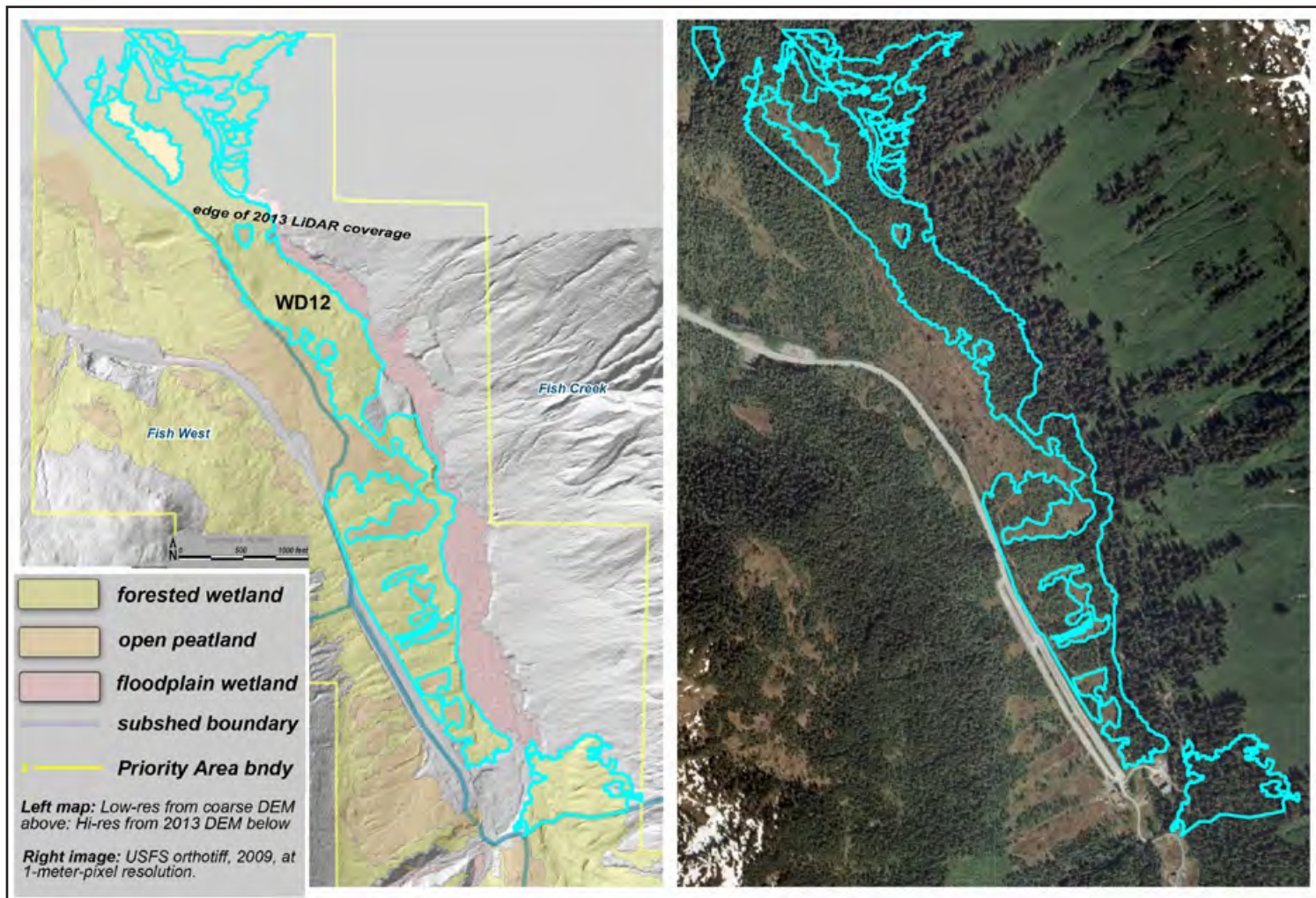
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.21	Higher	3.15	Moderate
Songbird, Raptor, & Mammal Habitat	9.49	Higher	2.22	Lower
Native Plant Habitat	6.52	Higher	1.75	Lower
Water Cooling	5.56	Higher	1.40	Lower
Invertebrate Habitat	5.29	Higher	2.06	Lower
Organic Nutrient Export	8.74	Higher	N.A.	N.A.
Amphibian Habitat	4.55	Moderate	4.58	Moderate
Phosphorus Retention	3.34	Moderate	3.34	Moderate
Water Warming	2.52	Moderate	5.12	Moderate
Sediment Retention & Stabilization	2.38	Moderate	3.86	Moderate
Nitrate Removal	2.21	Moderate	4.75	Moderate
Resident Fish Habitat	6.60	Moderate	2.12	Lower
Water Storage	3.71	Moderate	1.11	Lower
Carbon Sequestration	5.56	Moderate	N.A.	N.A.
Stream Flow Support	2.42	Lower	4.52	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.48	Moderate
Wetland Risk	N.A.	N.A.	4.97	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Ecological Condition	N.A.	N.A.	1.97	Lower
Public Use & Recognition	N.A.	N.A.	1.11	Lower

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WD12 • **type:** forested peatland • **acres:** 85.1 • **boundary criteria:** w-u, pa, type, subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.29	Higher	6.89	Higher
Pollinator Habitat	8.51	Higher	7.85	Higher
Invertebrate Habitat	6.12	Higher	10.00	Higher
Water Cooling	5.56	Higher	3.73	Moderate
Organic Nutrient Export	9.34	Higher	N.A.	N.A.
Resident Fish Habitat	6.11	Moderate	5.96	Higher
Native Plant Habitat	3.26	Moderate	6.95	Higher
Water Warming	2.52	Moderate	7.80	Higher
Stream Flow Support	5.34	Moderate	4.51	Moderate
Amphibian Habitat	3.95	Moderate	5.83	Moderate
Phosphorus Retention	3.62	Moderate	3.62	Moderate
Sediment Retention & Stabilization	2.70	Moderate	2.90	Moderate
Nitrate Removal	2.31	Moderate	4.75	Moderate
Water Storage	4.96	Moderate	1.11	Lower
Waterbird Nesting Habitat	3.99	Moderate	0.00	Lower
Carbon Sequestration	5.84	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.72	Higher
Wetland Stressors	N.A.	N.A.	7.24	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.11	Moderate
Public Use & Recognition	N.A.	N.A.	1.63	Lower



Unit map for WD12

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WD13 • **type:** forested peatland • **acres:** 36.0 • **boundary criteria:** w-u, pa, type, subsh • **pin:** 3D1301000010 • known or probable anadromous fish

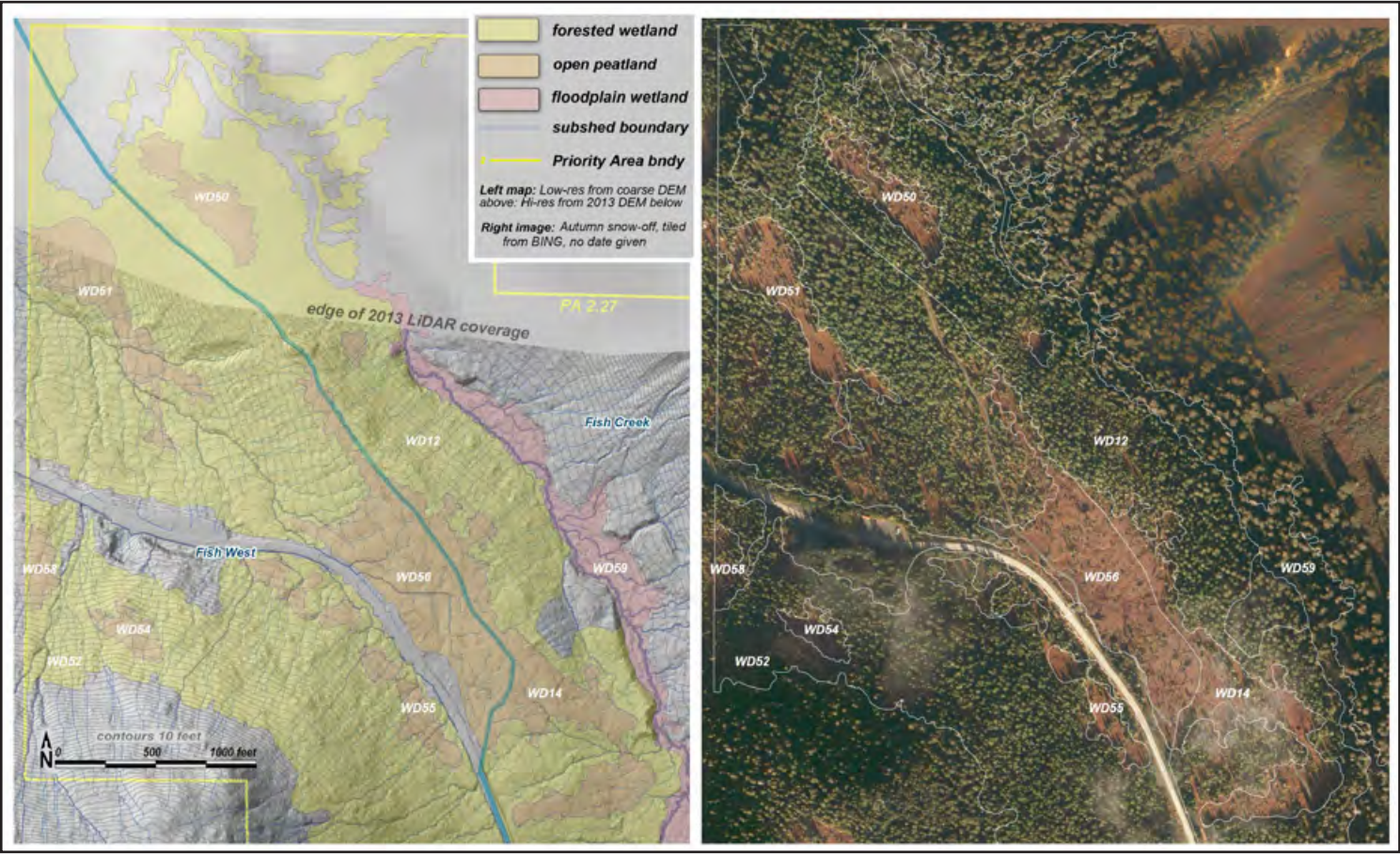
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Organic Nutrient Export	8.19	Higher	N.A.	N.A.
Stream Flow Support	4.79	Moderate	6.50	Higher
Water Cooling	4.21	Moderate	6.18	Higher
Water Warming	2.44	Moderate	6.52	Higher
Pollinator Habitat	6.53	Moderate	3.15	Moderate
Nitrate Removal	2.62	Moderate	4.80	Moderate
Resident Fish Habitat	7.16	Moderate	0.58	Lower
Anadromous Fish Habitat	6.18	Moderate	0.63	Lower
Native Plant Habitat	4.85	Moderate	0.29	Lower
Amphibian Habitat	4.16	Moderate	0.00	Lower
Waterbird Nesting Habitat	4.13	Moderate	0.00	Lower
Water Storage	3.89	Moderate	1.11	Lower
Invertebrate Habitat	3.41	Moderate	2.13	Lower
Carbon Sequestration	4.82	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.52	Lower	2.70	Moderate
Phosphorus Retention	2.53	Lower	2.53	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	5.15	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Stressors	N.A.	N.A.	2.85	Lower
Wetland Risk	N.A.	N.A.	2.53	Lower
Public Use & Recognition	N.A.	N.A.	0.26	Lower



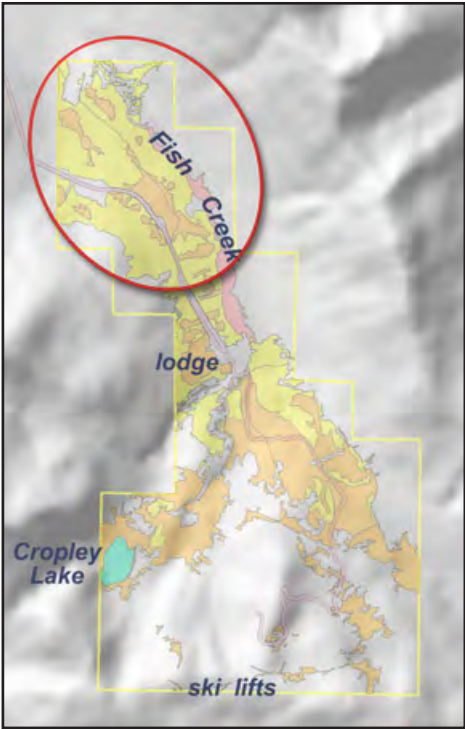
WD14 • **type:** open peatland • **acres:** 10.8 • **boundary criteria:** type, subsh • **pin:** 3D1021000010
 • known or probable anadromous fish

This is in error - will recalculate tables

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.85	Higher	8.04	Higher
Organic Nutrient Export	8.67	Higher	N.A.	N.A.
Carbon Sequestration	7.06	Higher	N.A.	N.A.
Pollinator Habitat	6.35	Moderate	8.56	Higher
Native Plant Habitat	4.49	Moderate	7.95	Higher
Water Cooling	5.08	Moderate	2.19	Moderate
Anadromous Fish Habitat	5.06	Moderate	4.08	Moderate
Resident Fish Habitat	5.05	Moderate	4.42	Moderate
Water Warming	3.36	Moderate	4.48	Moderate
Water Storage	4.13	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.07	Moderate	0.00	Lower
Stream Flow Support	2.90	Lower	5.09	Higher
Invertebrate Habitat	1.87	Lower	10.00	Higher
Amphibian Habitat	1.82	Lower	6.67	Higher
Nitrate Removal	1.55	Lower	4.75	Moderate
Sediment Retention & Stabilization	1.52	Lower	3.86	Moderate
Phosphorus Retention	2.11	Lower	2.11	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	8.14	Higher
Wetland Ecological Condition	N.A.	N.A.	7.30	Higher
Wetland Stressors	N.A.	N.A.	7.24	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.81	Lower



Unit maps for WD14 50 51 52 54 55 56 58





WD15 • **type:** for. peatland
 • **acres:** 8.5 • **boundary**
criteria: w-u, subsh • **pin:**
 3D1301000010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	6.45	Higher	7.00	Higher
Water Warming	5.46	Higher	5.95	Higher
Nitrate Removal	3.57	Higher	7.45	Higher
Anadromous Fish Habitat	9.09	Higher	1.75	Lower
Resident Fish Habitat	7.52	Higher	1.73	Lower
Organic Nutrient Export	8.68	Higher	N.A.	N.A.
Stream Flow Support	5.71	Moderate	7.59	Higher
Water Storage	2.95	Moderate	10.00	Higher
Pollinator Habitat	5.88	Moderate	3.26	Moderate
Songbird, Raptor, & Mammal Habitat	5.33	Moderate	3.33	Moderate
Sediment Retention & Stabilization	2.34	Moderate	4.04	Moderate
Native Plant Habitat	3.39	Moderate	0.43	Lower
Carbon Sequestration	4.00	Moderate	N.A.	N.A.
Invertebrate Habitat	3.11	Lower	2.77	Lower
Amphibian Habitat	2.71	Lower	1.67	Lower
Phosphorus Retention	2.16	Lower	2.16	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Ecological Condition	N.A.	N.A.	3.30	Moderate
Wetland Stressors	N.A.	N.A.	2.74	Lower
Wetland Sensitivity	N.A.	N.A.	2.29	Lower
Wetland Risk	N.A.	N.A.	1.59	Lower
Public Use & Recognition	N.A.	N.A.	0.95	Lower



WD16 • type: for. peatland •
 acres: 1.1 • boundary criteria:
 w-u, subsh • pin: 3D1301000010
 • known or probable anadromous
 fish

error -change fish score in table

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Cooling	7.89	Higher	2.18	Moderate
Pollinator Habitat	7.46	Higher	3.15	Moderate
Songbird, Raptor, & Mammal Habitat	8.34	Higher	2.22	Lower
Native Plant Habitat	7.62	Higher	1.36	Lower
Amphibian Habitat	5.40	Higher	3.61	Lower
Organic Nutrient Export	8.64	Higher	N.A.	N.A.
Stream Flow Support	3.39	Moderate	6.33	Higher
Water Warming	4.62	Moderate	3.88	Moderate
Nitrate Removal	2.62	Moderate	4.75	Moderate
Resident Fish Habitat	6.65	Moderate	1.15	Lower
Anadromous Fish Habitat	5.51	Moderate	1.25	Lower
Invertebrate Habitat	4.58	Moderate	2.85	Lower
Water Storage	3.43	Moderate	1.11	Lower
Carbon Sequestration	4.95	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.73	Lower	3.86	Moderate
Phosphorus Retention	2.00	Lower	2.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.43	Moderate
Wetland Risk	N.A.	N.A.	5.98	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.40	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.79	Lower



WD17 • **type:** for. peatland
 • **acres:** 2.1 • **boundary**
criteria: w-u, pa, subsh • **pin:**
 3D1301000010 • no known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.77	Higher	4.06	Moderate
Water Cooling	5.87	Higher	3.07	Moderate
Native Plant Habitat	5.28	Higher	0.29	Lower
Organic Nutrient Export	8.11	Higher	N.A.	N.A.
Pollinator Habitat	5.45	Moderate	3.15	Moderate
Water Warming	4.12	Moderate	5.40	Moderate
Phosphorus Retention	2.72	Moderate	2.72	Moderate
Nitrate Removal	2.53	Moderate	5.00	Moderate
Resident Fish Habitat	6.90	Moderate	1.15	Lower
Songbird, Raptor, & Mammal Habitat	6.70	Moderate	2.22	Lower
Amphibian Habitat	4.23	Moderate	2.25	Lower
Waterbird Nesting Habitat	3.69	Moderate	0.00	Lower
Water Storage	3.18	Moderate	0.56	Lower
Carbon Sequestration	4.30	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.26	Lower	2.87	Moderate
Invertebrate Habitat	2.53	Lower	2.13	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.34	Moderate
Wetland Stressors	N.A.	N.A.	2.90	Lower
Wetland Risk	N.A.	N.A.	1.79	Lower
Public Use & Recognition	N.A.	N.A.	0.39	Lower

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WD18 • **type:** forested peatland • **acres:** 1.9 • **boundary criteria:** type • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.81	Higher	3.33	Moderate
Pollinator Habitat	7.33	Higher	3.26	Moderate
Stream Flow Support	6.72	Higher	3.88	Moderate
Water Cooling	5.56	Higher	3.07	Moderate
Organic Nutrient Export	7.85	Higher	N.A.	N.A.
Carbon Sequestration	7.02	Higher	N.A.	N.A.
Water Warming	4.62	Moderate	5.85	Higher
Water Storage	3.68	Moderate	10.00	Higher
Nitrate Removal	1.98	Moderate	5.13	Moderate
Resident Fish Habitat	6.69	Moderate	1.73	Lower
Native Plant Habitat	4.49	Moderate	1.11	Lower
Sediment Retention & Stabilization	1.26	Lower	2.77	Moderate
Phosphorus Retention	2.20	Lower	2.20	Lower
Invertebrate Habitat	1.99	Lower	1.51	Lower
Amphibian Habitat	1.87	Lower	3.18	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.86	Lower
Wetland Stressors	N.A.	N.A.	2.74	Lower
Wetland Risk	N.A.	N.A.	1.40	Lower
Public Use & Recognition	N.A.	N.A.	0.95	Lower



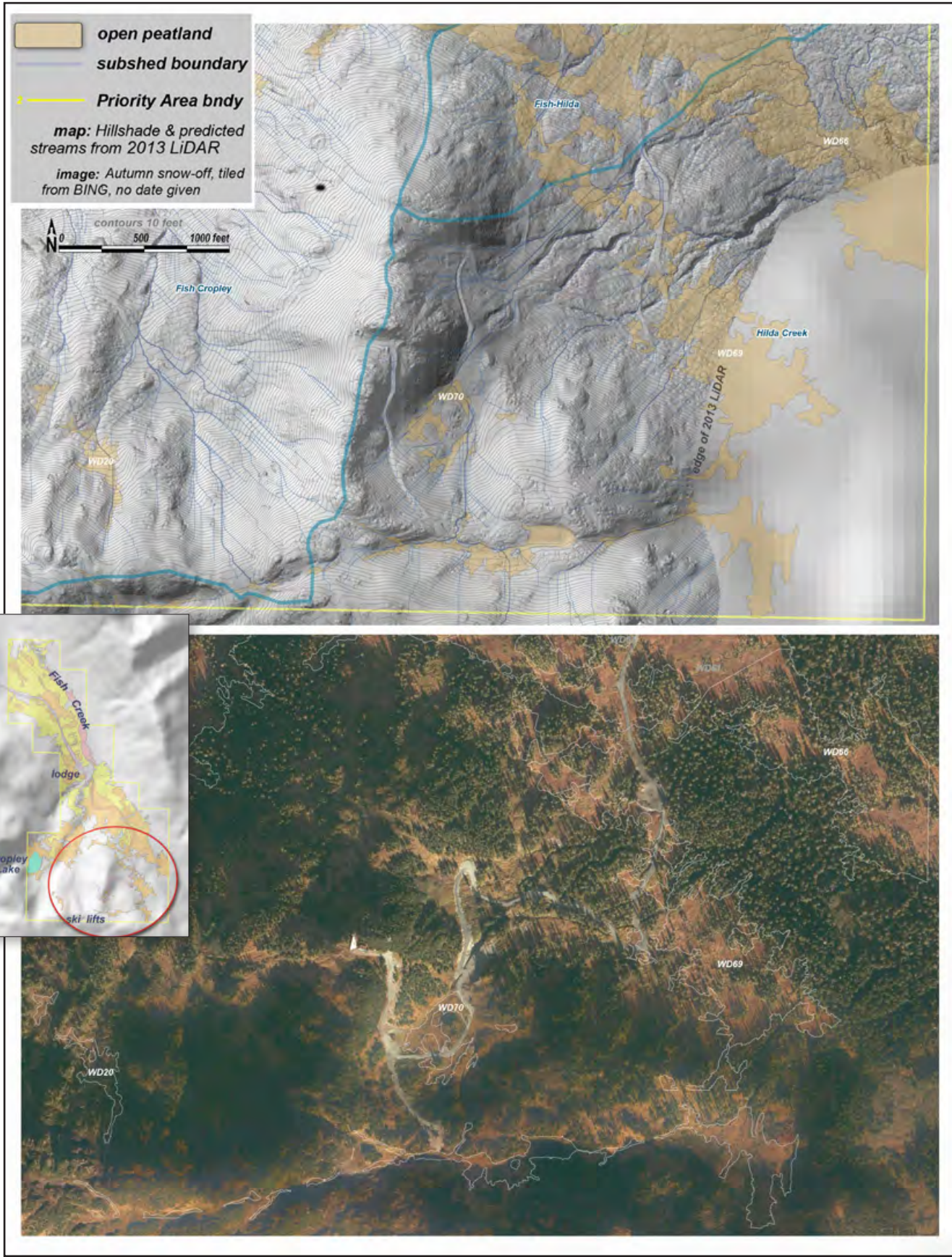
WD19 • **type:** forested peatland • **acres:** 68.9 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	8.49	Higher	3.15	Moderate
Water Cooling	7.47	Higher	3.07	Moderate
Stream Flow Support	6.52	Higher	4.58	Moderate
Songbird, Raptor, & Mammal Habitat	8.43	Higher	2.22	Lower
Resident Fish Habitat	7.56	Higher	1.15	Lower
Native Plant Habitat	7.45	Higher	1.67	Lower
Amphibian Habitat	5.57	Higher	3.69	Lower
Organic Nutrient Export	8.88	Higher	N.A.	N.A.
Water Warming	2.61	Moderate	6.32	Higher
Phosphorus Retention	3.16	Moderate	3.16	Moderate
Nitrate Removal	2.62	Moderate	4.75	Moderate
Sediment Retention & Stabilization	2.56	Moderate	3.86	Moderate
Waterbird Nesting Habitat	4.70	Moderate	0.00	Lower
Water Storage	4.04	Moderate	1.11	Lower
Invertebrate Habitat	4.00	Moderate	2.80	Lower
Carbon Sequestration	5.47	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.43	Moderate
Wetland Risk	N.A.	N.A.	5.60	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.52	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	1.90	Lower



WD20 • **type:** open peatland • **acres:** 1.7 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	8.40	Higher	7.13	Higher
Pollinator Habitat	8.78	Higher	3.19	Moderate
Water Cooling	8.43	Higher	1.36	Lower
Invertebrate Habitat	6.93	Higher	0.93	Lower
Organic Nutrient Export	9.02	Higher	N.A.	N.A.
Stream Flow Support	4.47	Moderate	6.43	Higher
Nitrate Removal	2.48	Moderate	7.31	Higher
Songbird, Raptor, & Mammal Habitat	6.63	Moderate	4.04	Moderate
Native Plant Habitat	5.04	Moderate	1.04	Lower
Waterbird Feeding Habitat	4.22	Moderate	0.00	Lower
Carbon Sequestration	5.18	Moderate	N.A.	N.A.
Amphibian Habitat	2.50	Lower	5.07	Moderate
Sediment Retention & Stabilization	1.52	Lower	4.44	Moderate
Water Storage	1.68	Lower	2.59	Lower
Phosphorus Retention	1.28	Lower	1.28	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	10.00	Higher
Wetland Risk	N.A.	N.A.	6.84	Higher
Wetland Stressors	N.A.	N.A.	6.85	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.31	Moderate
Public Use & Recognition	N.A.	N.A.	2.54	Moderate



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WD21 • **type:** forested peatland • **acres:** 26.8 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	9.12	Higher	3.15	Moderate
Stream Flow Support	6.77	Higher	3.98	Moderate
Water Cooling	5.87	Higher	3.07	Moderate
Songbird, Raptor, & Mammal Habitat	8.07	Higher	2.22	Lower
Native Plant Habitat	5.72	Higher	1.71	Lower
Organic Nutrient Export	8.78	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	6.21	Higher
Phosphorus Retention	2.67	Moderate	2.67	Moderate
Nitrate Removal	2.05	Moderate	4.75	Moderate
Resident Fish Habitat	6.72	Moderate	1.15	Lower
Amphibian Habitat	4.66	Moderate	3.39	Lower
Carbon Sequestration	5.11	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.59	Lower	3.81	Moderate
Water Storage	2.69	Lower	1.11	Lower
Invertebrate Habitat	2.42	Lower	1.87	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	8.60	Higher
Wetland Stressors	N.A.	N.A.	6.35	Moderate
Wetland Risk	N.A.	N.A.	5.35	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.15	Lower
Public Use & Recognition	N.A.	N.A.	0.51	Lower



WD40 • **type:** forested peatland • **acres:** 29.6 • **boundary criteria:** w-u, pa, type • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.07	Higher	3.33	Moderate
Stream Flow Support	7.48	Higher	1.80	Moderate
Water Cooling	6.26	Higher	3.51	Moderate
Native Plant Habitat	5.66	Higher	1.02	Lower
Organic Nutrient Export	8.17	Higher	N.A.	N.A.
Water Warming	4.12	Moderate	7.14	Higher
Pollinator Habitat	6.61	Moderate	3.26	Moderate
Phosphorus Retention	3.50	Moderate	3.50	Moderate
Nitrate Removal	1.92	Moderate	4.75	Moderate
Water Storage	3.49	Moderate	1.11	Lower
Amphibian Habitat	3.18	Moderate	3.39	Lower
Waterbird Nesting Habitat	3.11	Moderate	0.00	Lower
Carbon Sequestration	4.64	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.13	Lower	3.81	Moderate
Invertebrate Habitat	2.89	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.77	Moderate
Wetland Risk	N.A.	N.A.	5.47	Moderate
Wetland Ecological Condition	N.A.	N.A.	2.40	Lower
Public Use & Recognition	N.A.	N.A.	2.27	Lower
Wetland Sensitivity	N.A.	N.A.	2.20	Lower

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WD42 • **type:** fen/marsh • **acres:** 1.5 • **boundary criteria:** type • **pin:** 3D1301000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Amphibian Habitat	6.62	Higher	7.55	Higher
Waterbird Nesting Habitat	6.11	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	7.52	Higher	4.93	Moderate
Waterbird Feeding Habitat	6.76	Higher	4.94	Moderate
Water Warming	5.88	Higher	4.78	Moderate
Sediment Retention & Stabilization	5.00	Higher	2.70	Moderate
Nitrate Removal	3.76	Higher	4.80	Moderate
Water Storage	6.99	Higher	1.11	Lower
Native Plant Habitat	5.81	Higher	0.43	Lower
Carbon Sequestration	6.45	Higher	N.A.	N.A.
Phosphorus Retention	3.50	Moderate	3.50	Moderate
Invertebrate Habitat	4.86	Moderate	2.71	Lower
Water Cooling	3.58	Moderate	1.40	Lower
Organic Nutrient Export	7.47	Moderate	N.A.	N.A.
Pollinator Habitat	3.66	Lower	3.26	Moderate
Stream Flow Support	2.77	Lower	2.20	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.64	Moderate
Wetland Risk	N.A.	N.A.	5.84	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.56	Moderate
Public Use & Recognition	N.A.	N.A.	2.48	Moderate
Wetland Sensitivity	N.A.	N.A.	3.55	Lower



WD45 • **type:** fen/marsh •
acres: 2.0 • **boundary criteria:**
 type • **pin:** 3D1301000010 •
 known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.48	Higher	6.14	Higher
Waterbird Nesting Habitat	6.01	Higher	10.00	Higher
Water Storage	5.38	Higher	10.00	Higher
Nitrate Removal	4.10	Higher	6.77	Higher
Phosphorus Retention	4.04	Higher	4.04	Higher
Waterbird Feeding Habitat	7.80	Higher	5.00	Moderate
Anadromous Fish Habitat	7.59	Higher	5.32	Moderate
Amphibian Habitat	5.86	Higher	6.04	Moderate
Sediment Retention & Stabilization	4.36	Higher	2.80	Moderate
Water Cooling	5.11	Moderate	2.72	Moderate
Invertebrate Habitat	5.04	Moderate	4.81	Moderate
Songbird, Raptor, & Mammal Habitat	4.86	Moderate	5.00	Moderate
Water Warming	3.70	Moderate	5.24	Moderate
Native Plant Habitat	4.61	Moderate	0.57	Lower
Organic Nutrient Export	7.41	Moderate	N.A.	N.A.
Carbon Sequestration	5.08	Moderate	N.A.	N.A.
Stream Flow Support	3.03	Lower	7.77	Higher
Pollinator Habitat	3.95	Lower	3.36	Moderate
Wetland Stressors	N.A.	N.A.	5.78	Moderate
Wetland Risk	N.A.	N.A.	5.04	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.80	Moderate
Public Use & Recognition	N.A.	N.A.	2.51	Moderate
Wetland Sensitivity	N.A.	N.A.	2.83	Lower



WD50 • **type:** open peatland • **acres:** 3.2 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.09	Higher	5.39	Moderate
Pollinator Habitat	7.21	Higher	4.25	Moderate
Invertebrate Habitat	5.64	Higher	1.88	Lower
Organic Nutrient Export	7.79	Higher	N.A.	N.A.
Carbon Sequestration	7.00	Higher	N.A.	N.A.
Waterbird Feeding Habitat	3.94	Moderate	6.23	Higher
Waterbird Nesting Habitat	4.34	Moderate	9.50	Moderate
Water Warming	3.36	Moderate	4.93	Moderate
Nitrate Removal	2.21	Moderate	4.75	Moderate
Water Storage	4.62	Moderate	1.11	Lower
Water Cooling	3.93	Moderate	1.58	Lower
Amphibian Habitat	2.41	Lower	6.94	Higher
Stream Flow Support	3.15	Lower	2.36	Moderate
Sediment Retention & Stabilization	1.72	Lower	3.86	Moderate
Native Plant Habitat	0.97	Lower	2.60	Moderate
Phosphorus Retention	2.56	Lower	2.56	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	5.58	Moderate
Wetland Risk	N.A.	N.A.	5.44	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.19	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.19	Lower



WD51 • **type:** open peat-land • **acres:** 6.1 • **bound-ary criteria:** type, pa • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	6.16	Higher	5.89	Higher
Songbird, Raptor, & Mammal Habitat	8.66	Higher	5.39	Moderate
Stream Flow Support	8.49	Higher	2.14	Moderate
Water Cooling	5.84	Higher	3.51	Moderate
Organic Nutrient Export	9.42	Higher	N.A.	N.A.
Carbon Sequestration	6.31	Higher	N.A.	N.A.
Nitrate Removal	2.30	Moderate	4.75	Moderate
Invertebrate Habitat	4.58	Moderate	1.13	Lower
Water Storage	3.67	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.54	Moderate	0.00	Lower
Pollinator Habitat	2.76	Lower	4.25	Moderate
Native Plant Habitat	2.50	Lower	2.67	Moderate
Amphibian Habitat	2.18	Lower	6.30	Moderate
Sediment Retention & Stabilization	1.75	Lower	3.86	Moderate
Phosphorus Retention	2.35	Lower	2.35	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.80	Moderate
Wetland Risk	N.A.	N.A.	6.00	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.53	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.66	Lower

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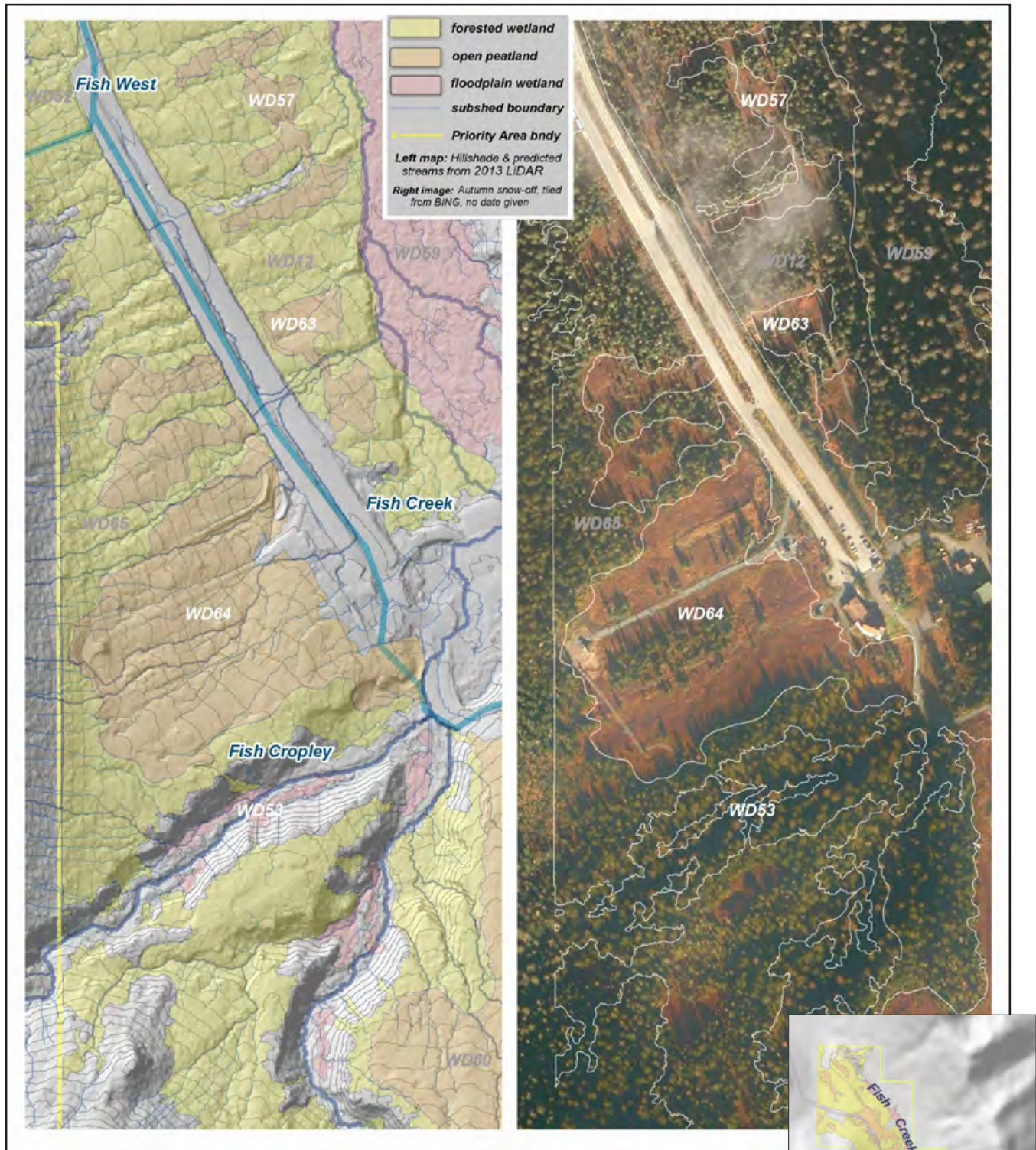
WD52 • **type:** forested
 peatland • **acres:** 92.5 •
boundary criteria: w-u,
 pa, type, subsh • **pin:**
 3D1021000010 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Pollinator Habitat	7.99	Higher	4.21	Moderate
Songbird, Raptor, & Mammal Habitat	7.98	Higher	3.33	Moderate
Organic Nutrient Export	9.34	Higher	N.A.	N.A.
Water Warming	2.94	Moderate	7.16	Higher
Stream Flow Support	4.84	Moderate	1.78	Moderate
Water Cooling	4.66	Moderate	3.95	Moderate
Native Plant Habitat	3.99	Moderate	2.52	Moderate
Phosphorus Retention	3.58	Moderate	3.58	Moderate
Amphibian Habitat	3.31	Moderate	3.31	Lower
Carbon Sequestration	5.41	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.36	Lower	4.21	Moderate
Nitrate Removal	0.92	Lower	4.75	Moderate
Invertebrate Habitat	2.78	Lower	0.68	Lower
Water Storage	2.21	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Risk	N.A.	N.A.	6.74	Higher
Wetland Stressors	N.A.	N.A.	7.48	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.59	Moderate
Public Use & Recognition	N.A.	N.A.	3.58	Moderate

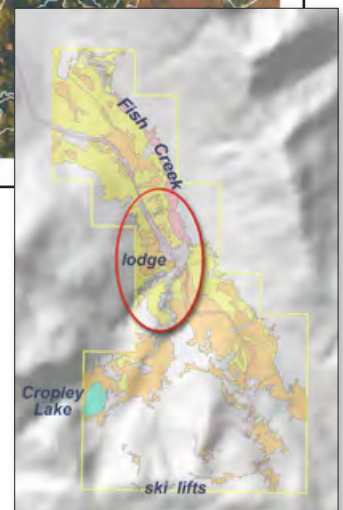


WD53 • **type:** floodplain wetland • **acres:** 1.9 • **boundary criteria:** w-u, type • **pin:** 3D1021000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Nitrate Removal	4.31	Higher	7.15	Higher
Water Cooling	7.54	Higher	3.95	Moderate
Waterbird Nesting Habitat	5.99	Higher	9.40	Moderate
Native Plant Habitat	5.88	Higher	2.52	Moderate
Water Warming	4.96	Higher	3.48	Moderate
Invertebrate Habitat	7.41	Higher	1.46	Lower
Water Storage	5.41	Higher	0.56	Lower
Organic Nutrient Export	8.53	Higher	N.A.	N.A.
Pollinator Habitat	5.53	Moderate	4.21	Moderate
Waterbird Feeding Habitat	5.28	Moderate	5.21	Moderate
Stream Flow Support	5.16	Moderate	2.71	Moderate
Songbird, Raptor, & Mammal Habitat	4.49	Moderate	5.36	Moderate
Sediment Retention & Stabilization	4.09	Moderate	3.99	Moderate
Amphibian Habitat	1.69	Lower	4.01	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Phosphorus Retention	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	1.79	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.55	Higher
Public Use & Recognition	N.A.	N.A.	6.18	Higher
Wetland Stressors	N.A.	N.A.	7.12	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.02	Moderate



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WD54 • **type:** open peatland
 • **acres:** 1.3 • **boundary criteria:** type • **pin:** 3D1021000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Resident Fish Habitat	8.48	Higher	6.14	Higher
Waterbird Nesting Habitat	6.01	Higher	10.00	Higher
Water Storage	5.38	Higher	10.00	Higher
Nitrate Removal	4.10	Higher	6.77	Higher
Phosphorus Retention	4.04	Higher	4.04	Higher
Waterbird Feeding Habitat	7.80	Higher	5.00	Moderate
Anadromous Fish Habitat	7.59	Higher	5.32	Moderate
Amphibian Habitat	5.86	Higher	6.04	Moderate
Sediment Retention & Stabilization	4.36	Higher	2.80	Moderate
Water Cooling	5.11	Moderate	2.72	Moderate
Invertebrate Habitat	5.04	Moderate	4.81	Moderate
Songbird, Raptor, & Mammal Habitat	4.86	Moderate	5.00	Moderate
Water Warming	3.70	Moderate	5.24	Moderate
Native Plant Habitat	4.61	Moderate	0.57	Lower
Organic Nutrient Export	7.41	Moderate	N.A.	N.A.
Carbon Sequestration	5.08	Moderate	N.A.	N.A.
Stream Flow Support	3.03	Lower	7.77	Higher
Pollinator Habitat	3.95	Lower	3.36	Moderate
Wetland Stressors	N.A.	N.A.	5.78	Moderate
Wetland Risk	N.A.	N.A.	5.04	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.80	Moderate
Public Use & Recognition	N.A.	N.A.	2.51	Moderate
Wetland Sensitivity	N.A.	N.A.	2.83	Lower

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WD55 • **type:** open peatland
 • **acres:** 3.8 • **boundary criteria:** type • **pin:** 3D1021000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.57	Higher	5.39	Moderate
Water Warming	6.16	Higher	4.89	Moderate
Water Cooling	5.84	Higher	1.58	Lower
Organic Nutrient Export	8.45	Higher	N.A.	N.A.
Carbon Sequestration	6.53	Higher	N.A.	N.A.
Stream Flow Support	4.50	Moderate	1.96	Moderate
Phosphorus Retention	2.92	Moderate	2.92	Moderate
Nitrate Removal	2.82	Moderate	4.75	Moderate
Water Storage	3.82	Moderate	1.11	Lower
Invertebrate Habitat	3.69	Moderate	1.08	Lower
Waterbird Feeding Habitat	3.40	Moderate	0.00	Lower
Pollinator Habitat	2.76	Lower	4.25	Moderate
Amphibian Habitat	2.00	Lower	6.13	Moderate
Sediment Retention & Stabilization	1.44	Lower	3.86	Moderate
Native Plant Habitat	1.25	Lower	2.64	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	6.19	Moderate
Wetland Risk	N.A.	N.A.	5.52	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.92	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.18	Lower



WD56 • **type:** open peatland • **acres:** 12.9 • **boundary criteria:** w-u, type subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.41	Higher	5.39	Moderate
Amphibian Habitat	5.49	Higher	5.87	Moderate
Water Storage	5.07	Higher	5.00	Moderate
Carbon Sequestration	7.29	Higher	N.A.	N.A.
Waterbird Feeding Habitat	4.44	Moderate	7.23	Higher
Pollinator Habitat	4.98	Moderate	4.25	Moderate
Waterbird Nesting Habitat	4.10	Moderate	9.50	Moderate
Phosphorus Retention	3.57	Moderate	3.57	Moderate
Sediment Retention & Stabilization	2.61	Moderate	2.68	Moderate
Nitrate Removal	1.92	Moderate	4.24	Moderate
Water Warming	3.82	Moderate	2.05	Lower
Water Cooling	3.10	Moderate	1.23	Lower
Organic Nutrient Export	7.37	Moderate	N.A.	N.A.
Stream Flow Support	2.77	Lower	1.75	Moderate
Native Plant Habitat	0.00	Lower	2.60	Moderate
Invertebrate Habitat	2.61	Lower	1.98	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.49	Higher
Wetland Ecological Condition	N.A.	N.A.	6.15	Higher
Wetland Stressors	N.A.	N.A.	6.17	Moderate
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Public Use & Recognition	N.A.	N.A.	2.27	Lower

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WD57 • **type:** open peatland • **acres:** 2.2 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.05	Higher	1.85	Moderate
Carbon Sequestration	8.53	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.13	Moderate	5.39	Moderate
Water Cooling	4.60	Moderate	3.16	Moderate
Waterbird Feeding Habitat	3.71	Moderate	4.23	Moderate
Phosphorus Retention	3.44	Moderate	3.44	Moderate
Nitrate Removal	2.26	Moderate	1.72	Lower
Pollinator Habitat	2.75	Lower	4.25	Moderate
Native Plant Habitat	2.56	Lower	2.60	Moderate
Invertebrate Habitat	3.13	Lower	0.57	Lower
Amphibian Habitat	2.02	Lower	3.48	Lower
Water Storage	1.46	Lower	1.11	Lower
Sediment Retention & Stabilization	1.42	Lower	0.28	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Organic Nutrient Export	5.64	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	6.05	Moderate
Wetland Risk	N.A.	N.A.	5.33	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.82	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	2.16	Lower



WD58 • **type:** open peatland • **acres:** 1.3 • **boundary criteria:** type, pa • **pin:** 3D1021000010 • **no** known or probable anadromous fish

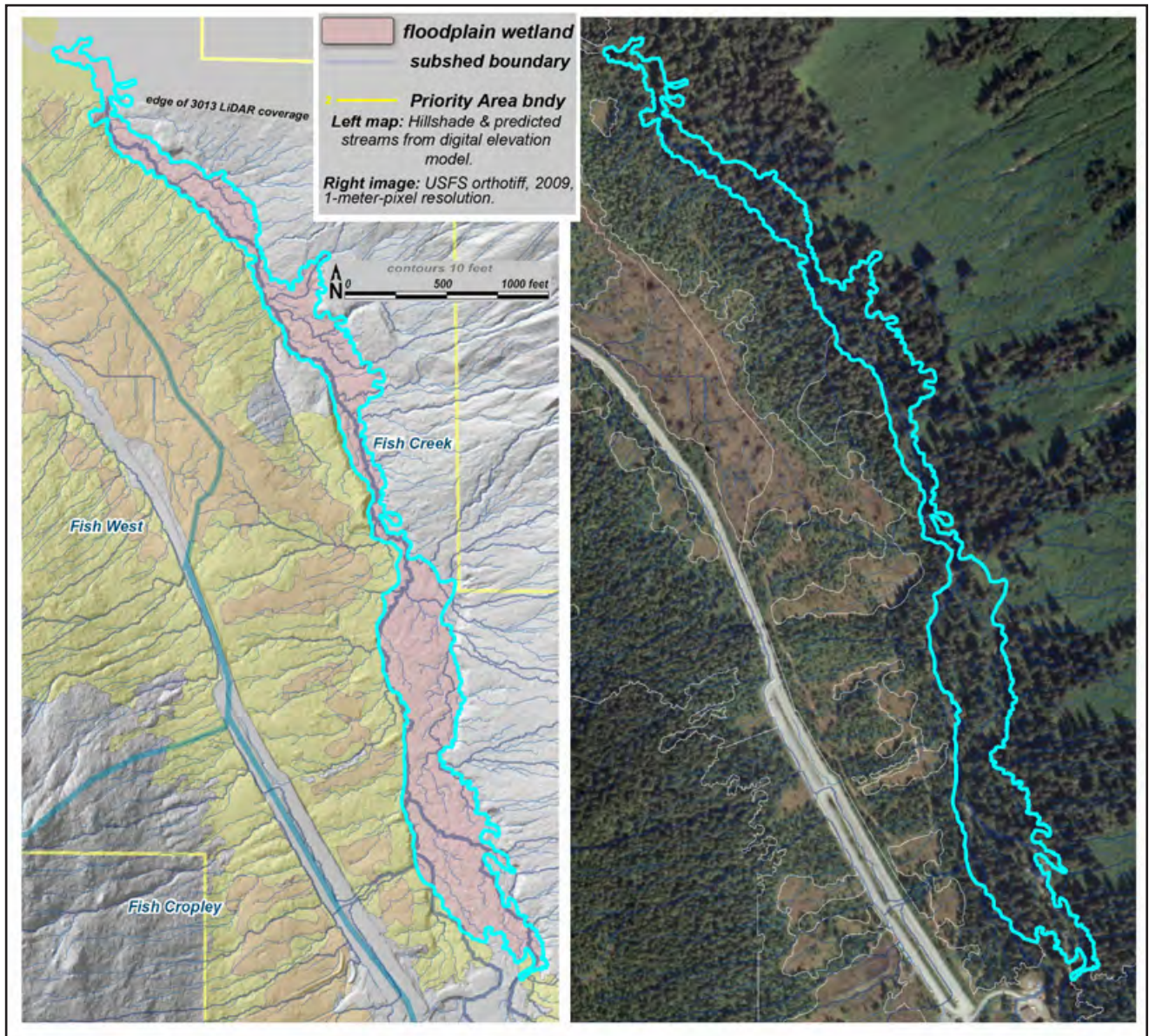
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	6.16	Higher	5.86	Higher
Songbird, Raptor, & Mammal Habitat	8.82	Higher	5.39	Moderate
Stream Flow Support	8.49	Higher	2.12	Moderate
Pollinator Habitat	8.20	Higher	4.25	Moderate
Water Cooling	6.99	Higher	3.51	Moderate
Native Plant Habitat	5.67	Higher	2.60	Moderate
Organic Nutrient Export	8.81	Higher	N.A.	N.A.
Invertebrate Habitat	4.45	Moderate	1.15	Lower
Waterbird Feeding Habitat	3.64	Moderate	0.00	Lower
Water Storage	3.59	Moderate	1.11	Lower
Carbon Sequestration	5.26	Moderate	N.A.	N.A.
Amphibian Habitat	2.00	Lower	6.50	Higher
Sediment Retention & Stabilization	1.52	Lower	3.91	Moderate
Nitrate Removal	1.47	Lower	5.15	Moderate
Phosphorus Retention	2.24	Lower	2.24	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	7.43	Higher
Wetland Stressors	N.A.	N.A.	7.25	Moderate
Wetland Ecological Condition	N.A.	N.A.	5.70	Moderate
Wetland Sensitivity	N.A.	N.A.	4.35	Lower
Public Use & Recognition	N.A.	N.A.	1.83	Lower

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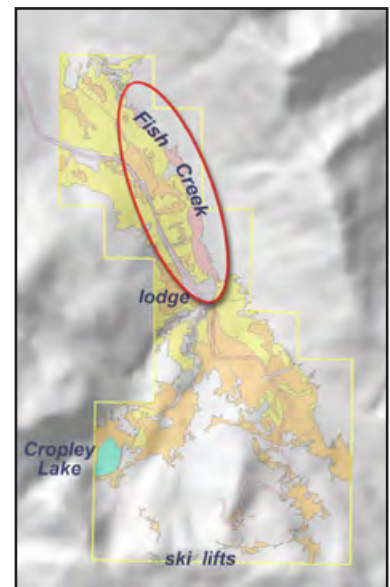


WD59 • **type:** floodplain wetland • **acres:** 24.5 • **boundary criteria:** w-u, type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	4.87	Higher	5.75	Higher
Nitrate Removal	3.32	Higher	5.76	Higher
Pollinator Habitat	8.57	Higher	4.21	Moderate
Songbird, Raptor, & Mammal Habitat	8.45	Higher	5.36	Moderate
Stream Flow Support	6.32	Higher	2.64	Moderate
Waterbird Nesting Habitat	5.89	Higher	9.40	Moderate
Water Storage	5.14	Higher	5.56	Moderate
Invertebrate Habitat	7.03	Higher	2.06	Lower
Organic Nutrient Export	9.44	Higher	N.A.	N.A.
Waterbird Feeding Habitat	5.49	Moderate	6.21	Higher
Water Cooling	4.85	Moderate	3.51	Moderate
Native Plant Habitat	4.63	Moderate	2.52	Moderate
Sediment Retention & Stabilization	3.42	Moderate	4.38	Moderate
Phosphorus Retention	2.63	Moderate	2.63	Moderate
Amphibian Habitat	1.16	Lower	7.46	Higher
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	3.66	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	6.46	Higher
Wetland Stressors	N.A.	N.A.	6.74	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.72	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Public Use & Recognition	N.A.	N.A.	1.14	Lower



Unit map for WD59

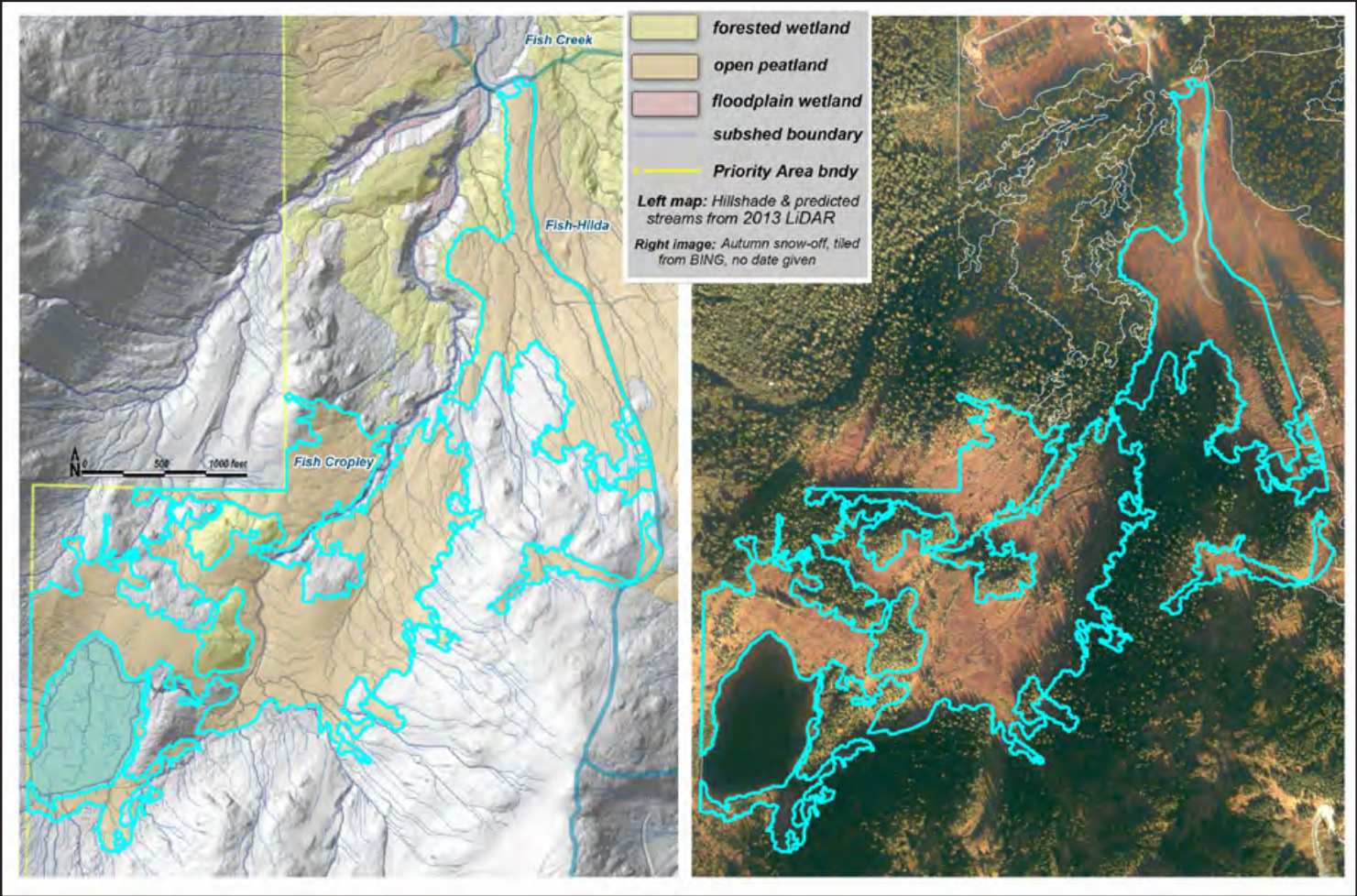


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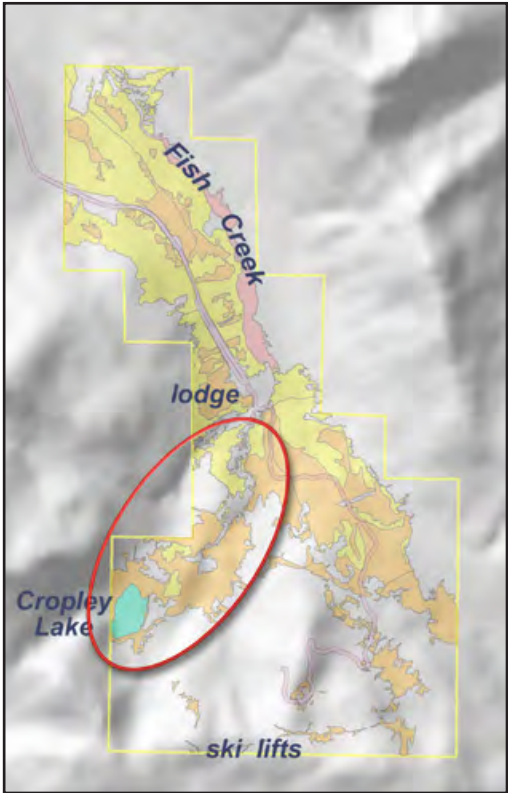


WD60 • **type:** open peatland • **acres:** 88.8 • **boundary criteria:** w-u, pa, type, subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Stream Flow Support	6.66	Higher	2.54	Moderate
Nitrate Removal	3.28	Higher	3.86	Moderate
Invertebrate Habitat	6.54	Higher	0.59	Lower
Organic Nutrient Export	7.96	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.75	Moderate	5.39	Moderate
Pollinator Habitat	5.39	Moderate	4.25	Moderate
Water Cooling	4.60	Moderate	3.68	Moderate
Phosphorus Retention	3.57	Moderate	3.57	Moderate
Sediment Retention & Stabilization	3.77	Moderate	0.63	Lower
Waterbird Feeding Habitat	3.10	Moderate	0.00	Lower
Native Plant Habitat	2.00	Lower	2.60	Moderate
Amphibian Habitat	2.04	Lower	3.58	Lower
Water Storage	0.63	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	3.81	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	7.53	Higher
Wetland Stressors	N.A.	N.A.	6.72	Moderate
Wetland Risk	N.A.	N.A.	5.90	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.49	Moderate
Public Use & Recognition	N.A.	N.A.	1.64	Lower



Unit map for WD60

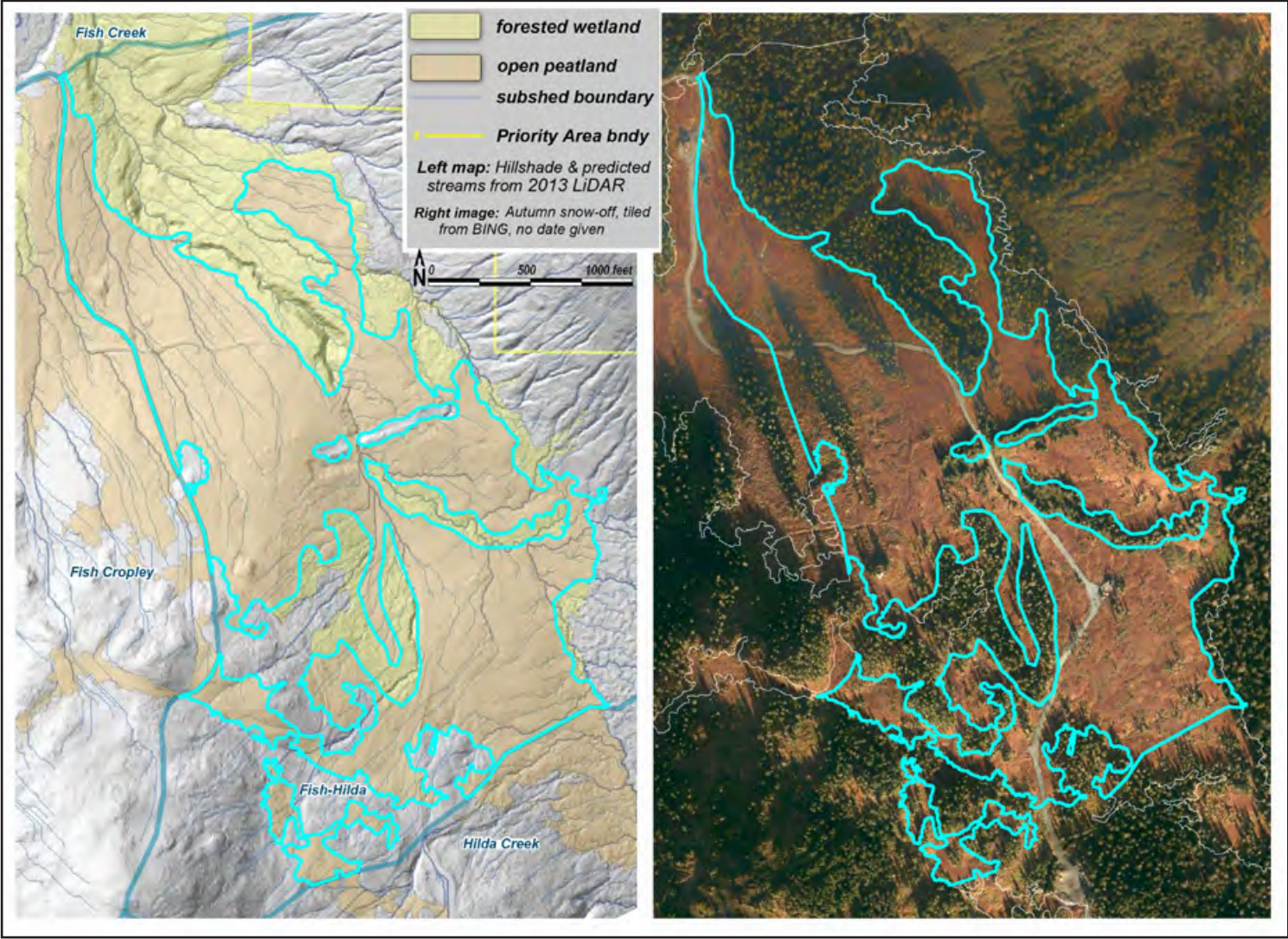


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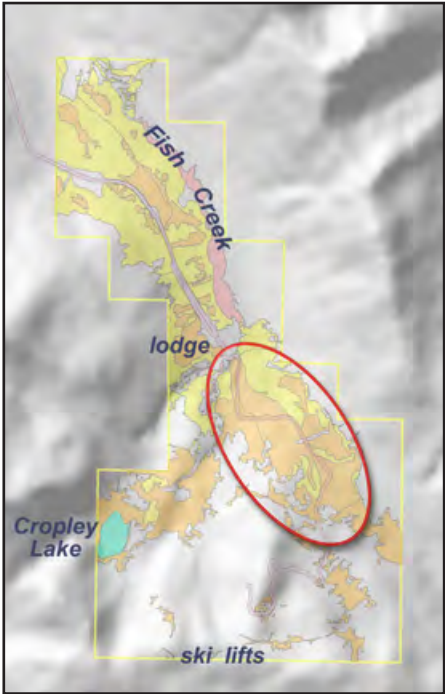


WD61 • **type:** open peatland • **acres:** 86.5 • **boundary criteria:** w-u, type, subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.50	Higher	3.33	Moderate
Invertebrate Habitat	6.17	Higher	0.72	Lower
Organic Nutrient Export	8.37	Higher	N.A.	N.A.
Water Warming	2.52	Moderate	7.11	Higher
Pollinator Habitat	6.08	Moderate	4.25	Moderate
Stream Flow Support	5.34	Moderate	2.46	Moderate
Water Cooling	4.41	Moderate	3.95	Moderate
Phosphorus Retention	3.26	Moderate	3.26	Moderate
Water Storage	3.58	Moderate	1.11	Lower
Amphibian Habitat	2.92	Moderate	3.75	Lower
Sediment Retention & Stabilization	2.26	Lower	3.98	Moderate
Nitrate Removal	1.61	Lower	4.75	Moderate
Native Plant Habitat	0.09	Lower	3.30	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.62	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.45	Moderate
Wetland Stressors	N.A.	N.A.	6.35	Moderate
Wetland Risk	N.A.	N.A.	4.63	Moderate
Public Use & Recognition	N.A.	N.A.	2.16	Lower
Wetland Ecological Condition	N.A.	N.A.	1.52	Lower



Unit map for WD61

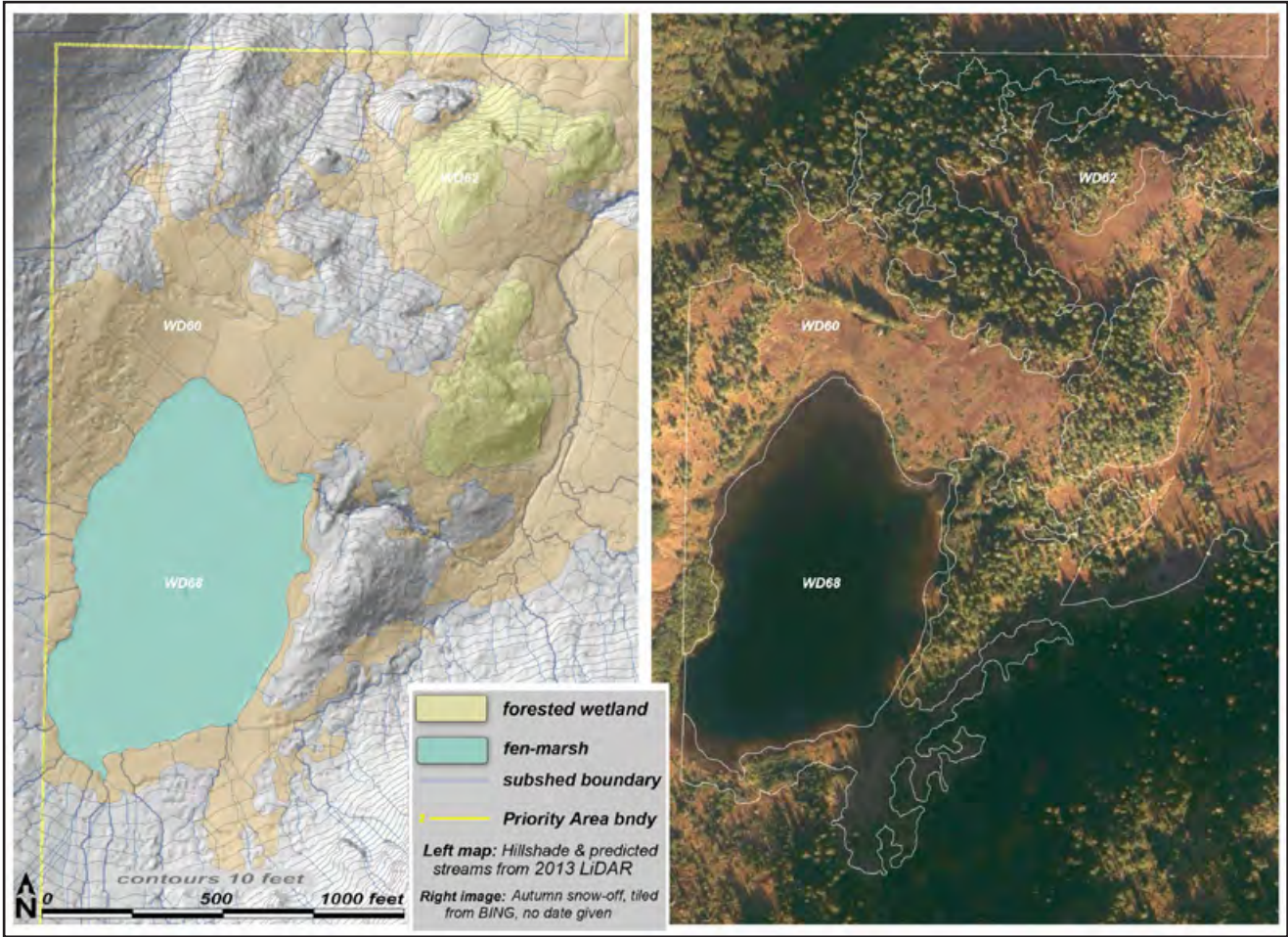


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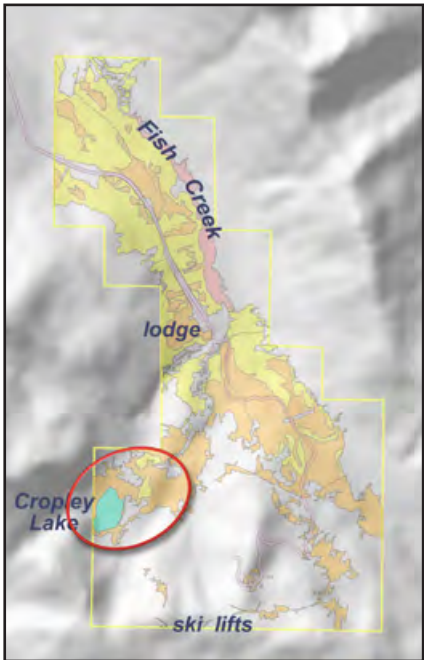


WD62 • **type:** forested peatland • **acres:** 5.4 • **boundary criteria:** type • **pin:** 3D1021000010 •
no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Invertebrate Habitat	6.57	Higher	0.34	Lower
Organic Nutrient Export	7.87	Higher	N.A.	N.A.
Carbon Sequestration	6.72	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	5.77	Moderate	3.33	Moderate
Water Cooling	4.60	Moderate	1.47	Lower
Amphibian Habitat	3.50	Moderate	1.47	Lower
Sediment Retention & Stabilization	2.80	Moderate	0.14	Lower
Pollinator Habitat	4.10	Lower	4.21	Moderate
Stream Flow Support	2.82	Lower	2.54	Moderate
Native Plant Habitat	2.67	Lower	2.52	Moderate
Nitrate Removal	1.86	Lower	1.46	Lower
Phosphorus Retention	1.53	Lower	1.53	Lower
Water Storage	0.38	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Water Warming	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Stressors	N.A.	N.A.	6.20	Moderate
Wetland Risk	N.A.	N.A.	4.47	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.53	Lower
Public Use & Recognition	N.A.	N.A.	0.80	Lower



Unit maps for WD62 68



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WD63 • **type:** open peatland • **acres:** 1.6 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.43	Higher	5.39	Moderate
Pollinator Habitat	6.83	Higher	4.25	Moderate
Stream Flow Support	6.30	Higher	2.06	Moderate
Organic Nutrient Export	8.42	Higher	N.A.	N.A.
Water Warming	3.36	Moderate	6.93	Higher
Water Cooling	5.08	Moderate	3.68	Moderate
Invertebrate Habitat	4.16	Moderate	1.01	Lower
Water Storage	3.91	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.39	Moderate	0.00	Lower
Native Plant Habitat	1.90	Lower	3.44	Moderate
Amphibian Habitat	1.57	Lower	6.01	Moderate
Nitrate Removal	0.65	Lower	3.18	Moderate
Phosphorus Retention	1.70	Lower	1.70	Lower
Sediment Retention & Stabilization	1.11	Lower	0.81	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.91	Lower	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	9.54	Higher
Wetland Risk	N.A.	N.A.	9.50	Higher
Wetland Ecological Condition	N.A.	N.A.	4.86	Moderate
Public Use & Recognition	N.A.	N.A.	3.36	Moderate
Wetland Sensitivity	N.A.	N.A.	3.01	Lower



WD64 • **type:** open peatland • **acres:** 16.7 • **boundary criteria:** type • **pin:** 3D1021000010 • no known or probable anadromous fish

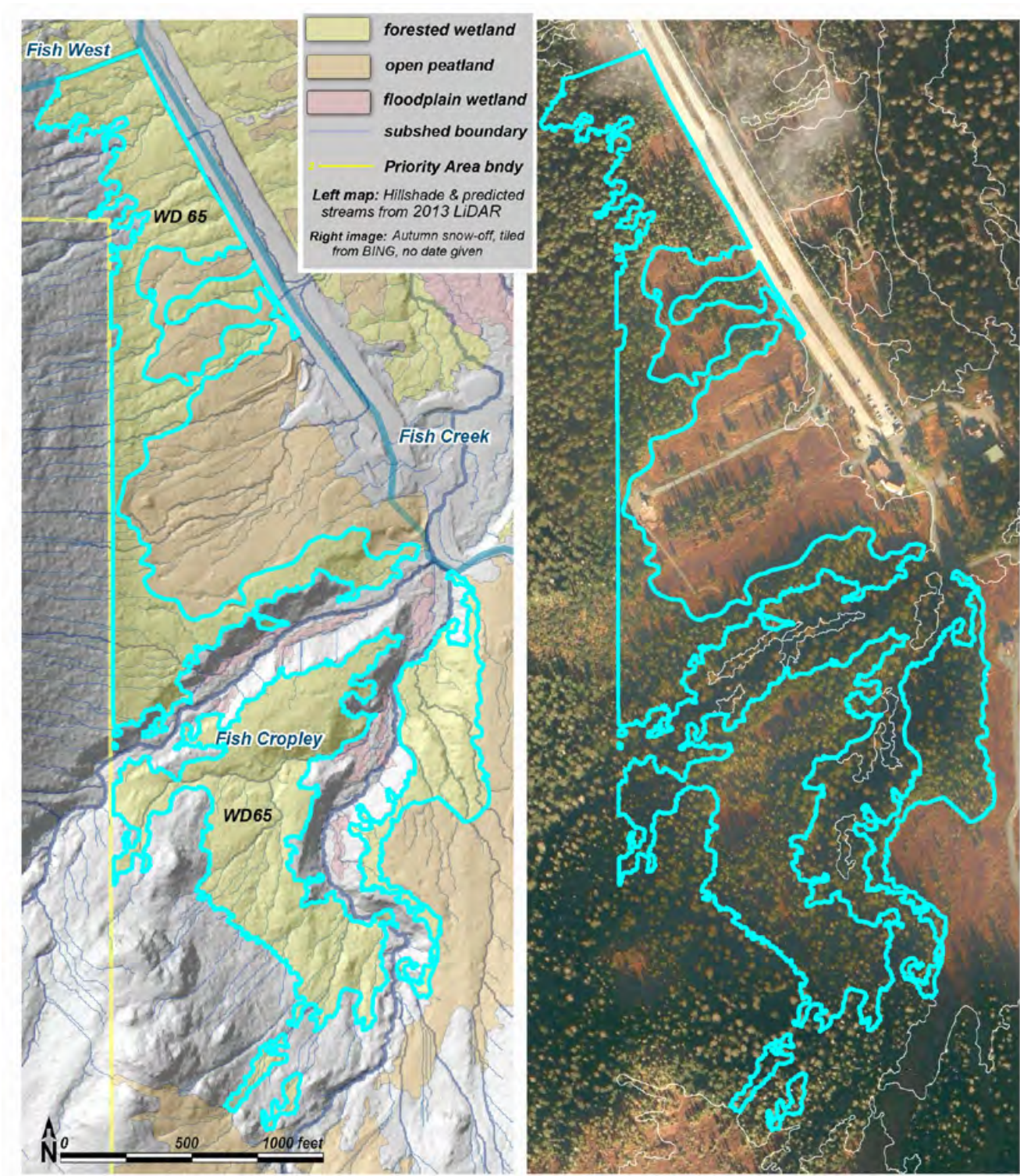
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.28	Higher	5.39	Moderate
Water Warming	6.16	Higher	4.86	Moderate
Water Cooling	5.84	Higher	1.58	Lower
Organic Nutrient Export	8.91	Higher	N.A.	N.A.
Pollinator Habitat	5.14	Moderate	4.25	Moderate
Stream Flow Support	4.39	Moderate	2.03	Moderate
Phosphorus Retention	3.70	Moderate	3.70	Moderate
Nitrate Removal	2.75	Moderate	5.15	Moderate
Invertebrate Habitat	4.01	Moderate	1.00	Lower
Water Storage	3.64	Moderate	1.11	Lower
Waterbird Feeding Habitat	3.49	Moderate	0.00	Lower
Carbon Sequestration	4.93	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.82	Lower	3.91	Moderate
Amphibian Habitat	1.61	Lower	5.95	Moderate
Native Plant Habitat	0.34	Lower	3.04	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.61	Moderate
Wetland Risk	N.A.	N.A.	6.12	Moderate
Wetland Sensitivity	N.A.	N.A.	5.38	Moderate
Public Use & Recognition	N.A.	N.A.	3.09	Moderate
Wetland Ecological Condition	N.A.	N.A.	1.89	Lower

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WD65 • **type:** for. peatland
 • **acres:** 36.4 • **boundary**
criteria: w-u, pa, type, subsh •
pin: 3D1021000010 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.65	Higher	3.33	Moderate
Stream Flow Support	7.53	Higher	1.68	Moderate
Water Cooling	5.94	Higher	3.95	Moderate
Organic Nutrient Export	9.17	Higher	N.A.	N.A.
Nitrate Removal	2.43	Moderate	6.89	Higher
Pollinator Habitat	6.19	Moderate	4.21	Moderate
Water Warming	4.62	Moderate	3.57	Moderate
Native Plant Habitat	4.22	Moderate	2.52	Moderate
Amphibian Habitat	3.18	Moderate	3.04	Lower
Carbon Sequestration	4.44	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	0.00	Lower	3.81	Moderate
Phosphorus Retention	2.38	Lower	2.38	Lower
Invertebrate Habitat	2.26	Lower	0.61	Lower
Water Storage	0.28	Lower	1.11	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.68	Higher
Wetland Risk	N.A.	N.A.	6.58	Higher
Public Use & Recognition	N.A.	N.A.	5.32	Higher
Wetland Stressors	N.A.	N.A.	6.81	Moderate
Wetland Ecological Condition	N.A.	N.A.	4.81	Moderate



Unit map for WD65

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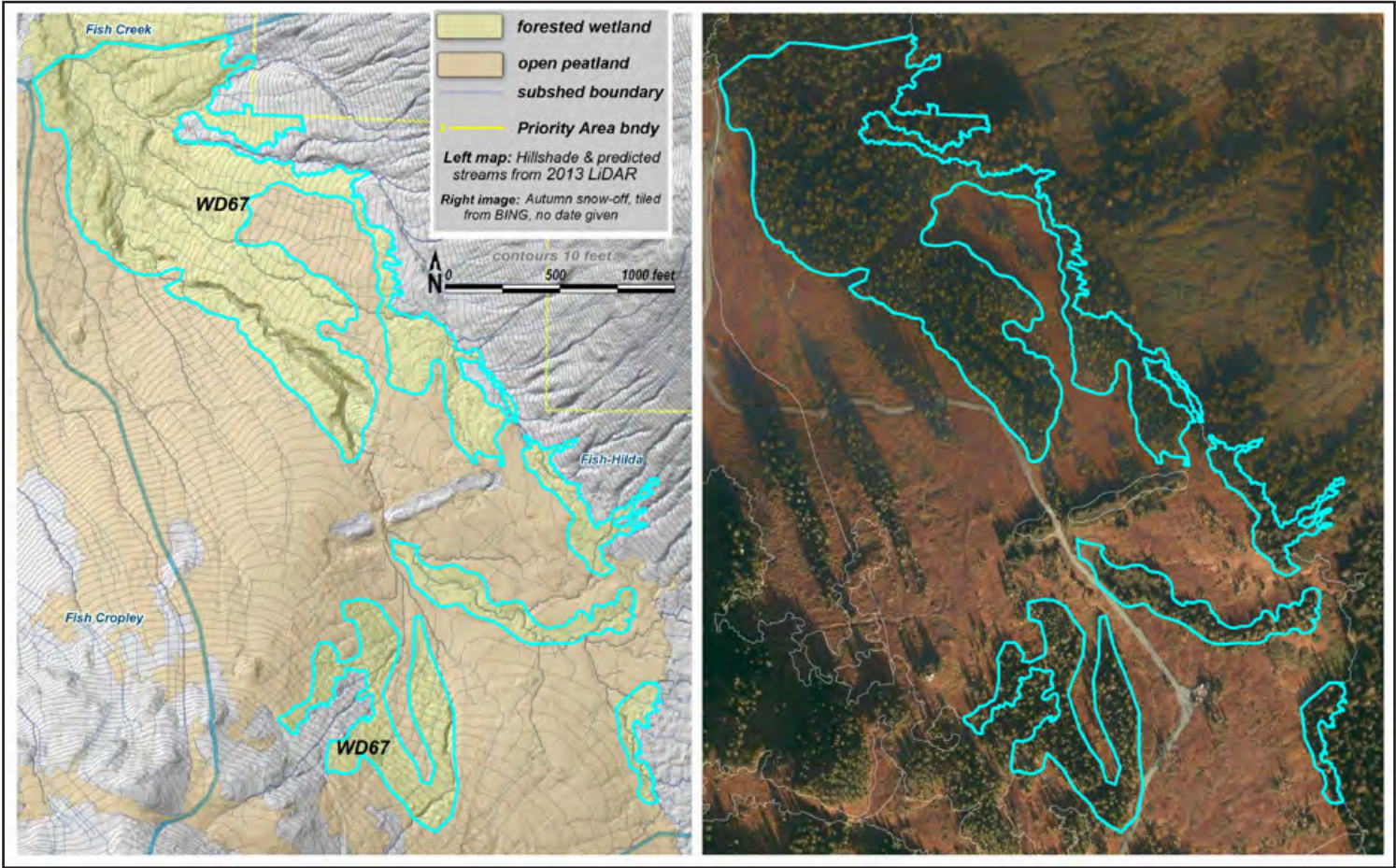
WD66 • **type:** open peatland • **acres:** 19.8 • **boundary criteria:** w-u, pa, subsh • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	5.57	Higher	5.89	Higher
Stream Flow Support	8.54	Higher	2.29	Moderate
Songbird, Raptor, & Mammal Habitat	7.72	Higher	5.39	Moderate
Water Cooling	6.21	Higher	3.51	Moderate
Nitrate Removal	3.46	Higher	4.75	Moderate
Invertebrate Habitat	5.29	Higher	1.06	Lower
Organic Nutrient Export	9.69	Higher	N.A.	N.A.
Carbon Sequestration	6.09	Higher	N.A.	N.A.
Pollinator Habitat	5.12	Moderate	4.25	Moderate
Native Plant Habitat	4.44	Moderate	2.60	Moderate
Waterbird Feeding Habitat	4.11	Moderate	0.00	Lower
Water Storage	3.44	Moderate	1.11	Lower
Sediment Retention & Stabilization	2.26	Lower	3.86	Moderate
Amphibian Habitat	2.24	Lower	5.90	Moderate
Phosphorus Retention	1.21	Lower	1.21	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	9.19	Higher
Wetland Stressors	N.A.	N.A.	6.86	Moderate
Wetland Risk	N.A.	N.A.	6.05	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.51	Moderate
Public Use & Recognition	N.A.	N.A.	1.28	Lower

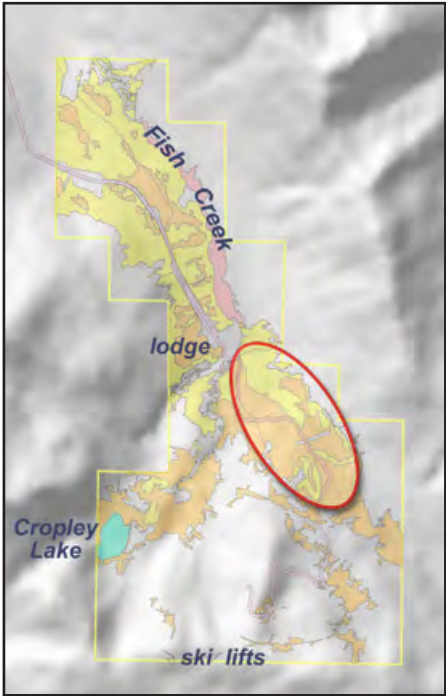


WD67 • **type:** for. peatland
 • **acres:** 41.1 • **boundary**
criteria: w-u, pa, type, subsh •
pin: 3D1021000010 • no known
 or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.32	Higher	3.33	Moderate
Pollinator Habitat	7.79	Higher	4.21	Moderate
Stream Flow Support	7.53	Higher	2.63	Moderate
Water Cooling	6.32	Higher	3.51	Moderate
Water Warming	5.32	Higher	3.02	Moderate
Invertebrate Habitat	7.01	Higher	0.91	Lower
Organic Nutrient Export	10.00	Higher	N.A.	N.A.
Nitrate Removal	2.38	Moderate	5.51	Higher
Water Storage	3.58	Moderate	6.11	Moderate
Amphibian Habitat	3.42	Moderate	4.43	Moderate
Phosphorus Retention	3.26	Moderate	3.26	Moderate
Carbon Sequestration	5.55	Moderate	N.A.	N.A.
Native Plant Habitat	2.67	Lower	3.90	Moderate
Sediment Retention & Stabilization	2.26	Lower	4.26	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Stressors	N.A.	N.A.	7.36	Moderate
Wetland Risk	N.A.	N.A.	6.27	Moderate
Wetland Sensitivity	N.A.	N.A.	4.30	Lower
Wetland Ecological Condition	N.A.	N.A.	2.81	Lower
Public Use & Recognition	N.A.	N.A.	1.95	Lower



Unit map for WD67





WD68 • **type:** fen/marsh •
acres: 11.5 • **boundary crite-**
ria: type • **pin:** 3D1021000010
 • no known or probable anadromous fish

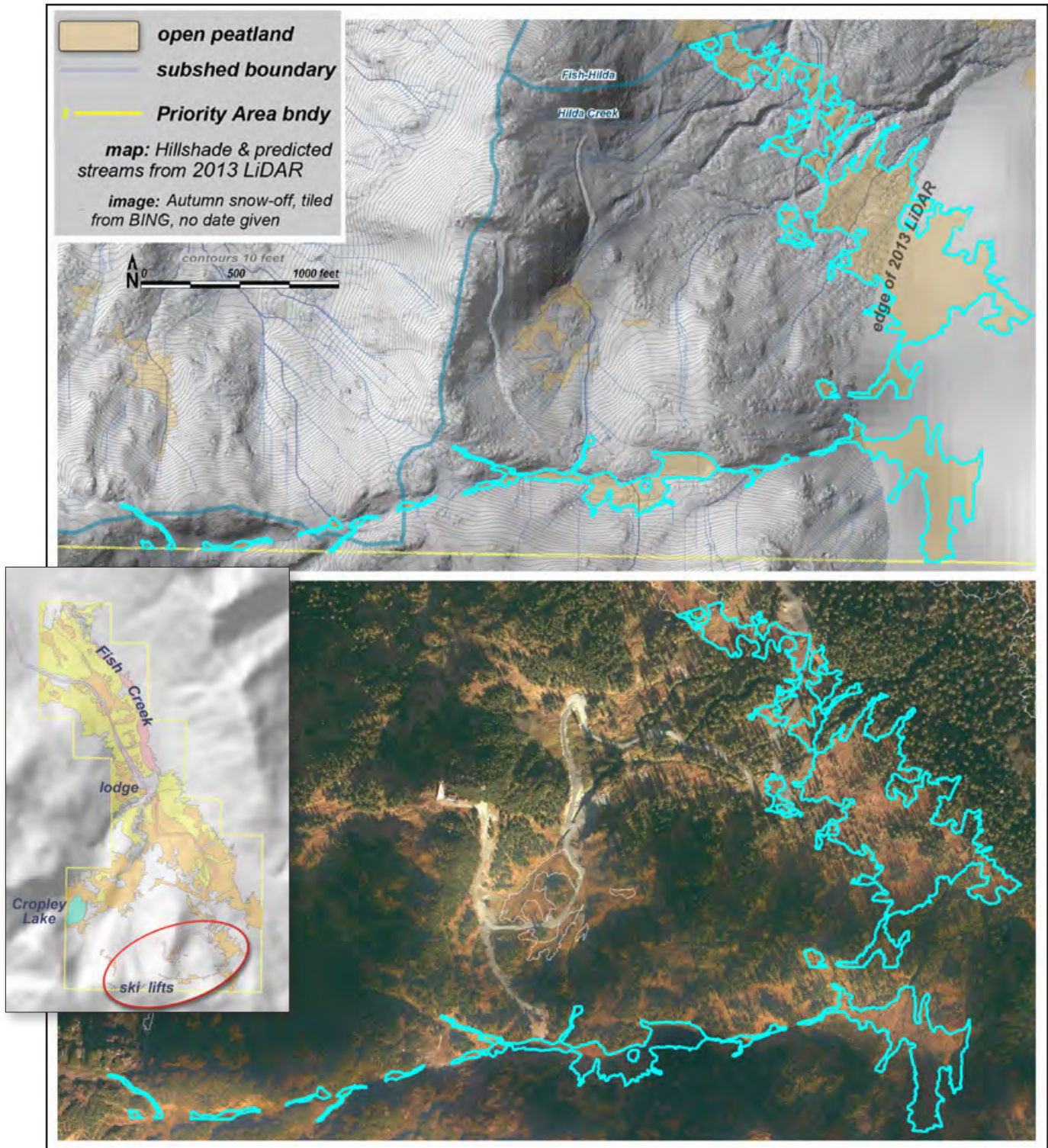
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	9.75	Higher	6.31	Higher
Waterbird Nesting Habitat	8.44	Higher	10.00	Higher
Waterbird Feeding Habitat	8.43	Higher	6.33	Higher
Invertebrate Habitat	5.51	Higher	10.00	Higher
Stream Flow Support	9.60	Higher	2.33	Moderate
Amphibian Habitat	5.45	Higher	5.00	Moderate
Organic Nutrient Export	7.82	Higher	N.A.	N.A.
Water Cooling	2.94	Moderate	3.51	Moderate
Nitrate Removal	2.86	Moderate	4.75	Moderate
Native Plant Habitat	2.32	Lower	6.29	Higher
Sediment Retention & Stabilization	1.75	Lower	3.74	Moderate
Phosphorus Retention	2.28	Lower	2.28	Lower
Water Storage	1.52	Lower	1.11	Lower
Pollinator Habitat	0.12	Lower	0.00	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Songbird, Raptor, & Mammal Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	0.22	Lower	N.A.	N.A.
Wetland Ecological Condition	N.A.	N.A.	3.83	Moderate
Public Use & Recognition	N.A.	N.A.	2.45	Moderate
Wetland Stressors	N.A.	N.A.	4.01	Lower
Wetland Sensitivity	N.A.	N.A.	3.23	Lower
Wetland Risk	N.A.	N.A.	3.18	Lower

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WD69 • **type:** open peatland •
acres: 23.5 • **boundary criteria:**
 w-u, subsh • **pin:** 3D1021000010
 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	6.64	Higher	6.93	Higher
Stream Flow Support	8.79	Higher	1.60	Moderate
Songbird, Raptor, & Mammal Habitat	7.61	Higher	5.39	Moderate
Native Plant Habitat	5.35	Higher	2.60	Moderate
Organic Nutrient Export	8.65	Higher	N.A.	N.A.
Pollinator Habitat	5.77	Moderate	4.25	Moderate
Water Cooling	4.34	Moderate	3.95	Moderate
Waterbird Feeding Habitat	3.57	Moderate	0.00	Lower
Carbon Sequestration	5.55	Moderate	N.A.	N.A.
Nitrate Removal	1.66	Lower	4.75	Moderate
Amphibian Habitat	1.52	Lower	5.45	Moderate
Sediment Retention & Stabilization	1.34	Lower	3.71	Moderate
Water Storage	2.61	Lower	1.11	Lower
Phosphorus Retention	2.29	Lower	2.29	Lower
Invertebrate Habitat	1.87	Lower	0.89	Lower
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Resident Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Wetland Risk	N.A.	N.A.	6.47	Higher
Wetland Stressors	N.A.	N.A.	7.45	Moderate
Wetland Sensitivity	N.A.	N.A.	5.16	Moderate
Wetland Ecological Condition	N.A.	N.A.	3.05	Lower
Public Use & Recognition	N.A.	N.A.	2.04	Lower



Unit map for WD69

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WD70 • **type:** open peatland • **acres:** 1.8 • **boundary criteria:** w-u • **pin:** 3D1021000010 • no known or probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Water Warming	10.00	Higher	10.00	Higher
Stream Flow Support	8.59	Higher	10.00	Higher
Anadromous Fish Habitat	7.95	Higher	4.58	Moderate
Organic Nutrient Export	9.31	Higher	N.A.	N.A.
Water Cooling	3.32	Moderate	6.85	Higher
Pollinator Habitat	6.63	Moderate	3.19	Moderate
Songbird, Raptor, & Mammal Habitat	6.25	Moderate	4.04	Moderate
Resident Fish Habitat	5.10	Moderate	5.00	Moderate
Nitrate Removal	3.00	Moderate	5.29	Moderate
Native Plant Habitat	4.76	Moderate	0.33	Lower
Waterbird Feeding Habitat	3.54	Moderate	0.00	Lower
Water Storage	3.45	Moderate	2.59	Lower
Sediment Retention & Stabilization	1.54	Lower	3.92	Moderate
Amphibian Habitat	1.06	Lower	4.29	Moderate
Invertebrate Habitat	2.19	Lower	2.65	Lower
Phosphorus Retention	0.85	Lower	0.85	Lower
Waterbird Nesting Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	2.88	Lower	N.A.	N.A.
Wetland Risk	N.A.	N.A.	9.86	Higher
Wetland Stressors	N.A.	N.A.	9.85	Higher
Wetland Sensitivity	N.A.	N.A.	8.39	Higher
Wetland Ecological Condition	N.A.	N.A.	4.97	Moderate
Public Use & Recognition	N.A.	N.A.	3.35	Moderate

3.0 SCORES BY AA: TIDAL WETLANDS

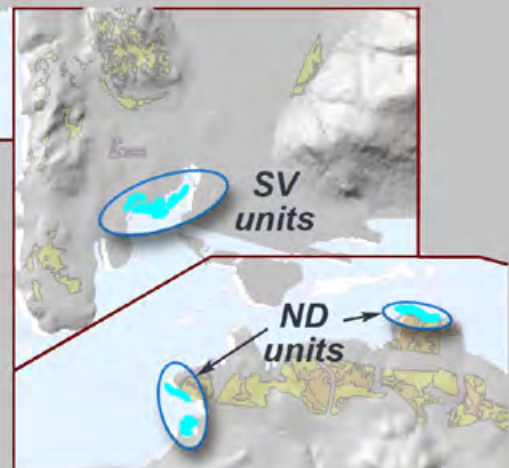
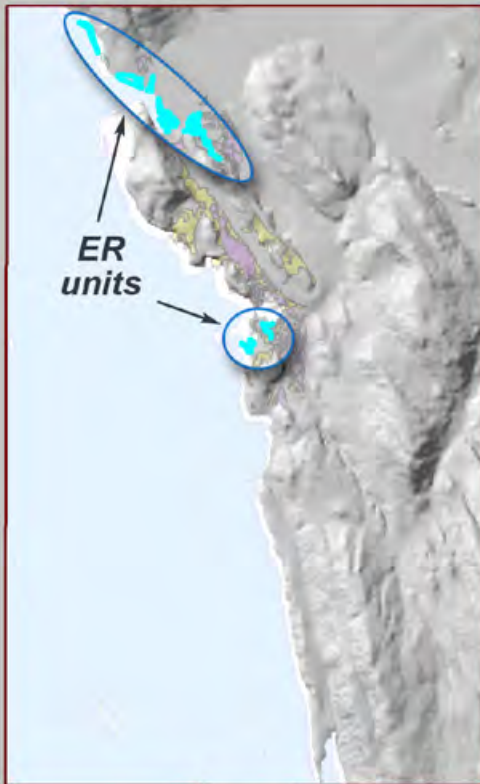
We assessed 13 tidal wetland AAs on 3 map pages: Eagle River (ER), South Valley (SV) and North Douglas (ND). They totalled 58 acres.

The following descriptions of tidal wetlands follow the same format as those for non-tidal wetlands.

Similarly, in each AA's score table, *the functions or other attributes are listed from highest-to-lowest function score*. A high Value score indicates that, because of reasons such as where the AA is located, the function is likely to be valued more highly if it is performed currently or in the future.

For tidal wetlands, WESPAK-SE generates scores for fewer functions (7) than it does for non-tidal wetlands (18). That does not mean that tidal wetlands are less valuable. For some functions (Phosphorus Retention, Nitrate Removal, Water Cooling, Water Warming, Resident Fish Habitat, Aquatic Invertebrate Habitat, Pollinator Habitat) it means only that scientific knowledge was considered insufficient to construct models capable of differentiating among distinct tidal wetland AAs. Some other functions—specifically Water Storage, Stream Flow Support, Amphibian Habitat, and Waterbird Nesting Habitat—are not scored by WESPAK-SE because tidal wetlands as a whole do not significantly support those functions (however, upper margins of tidal wetlands that are tidally flooded less than about once monthly may support those to some degree). Consistent with the non-tidal component of WESPAK-SE, no value scores are assigned to Carbon Sequestration or Organic Nutrient Export because their benefits are expressed globally or at a broad scale.

The scores that WESPAK-SE generates for tidal wetlands cannot fairly be compared with those from the ones it generates for non-tidal wetlands because WESPAK-SE uses different indicators and models, and scores have been normalized across many fewer AAs (13 instead of 333). Any comparisons between tidal and non-tidal wetlands must take into consideration the fact that for several functions—Waterbird



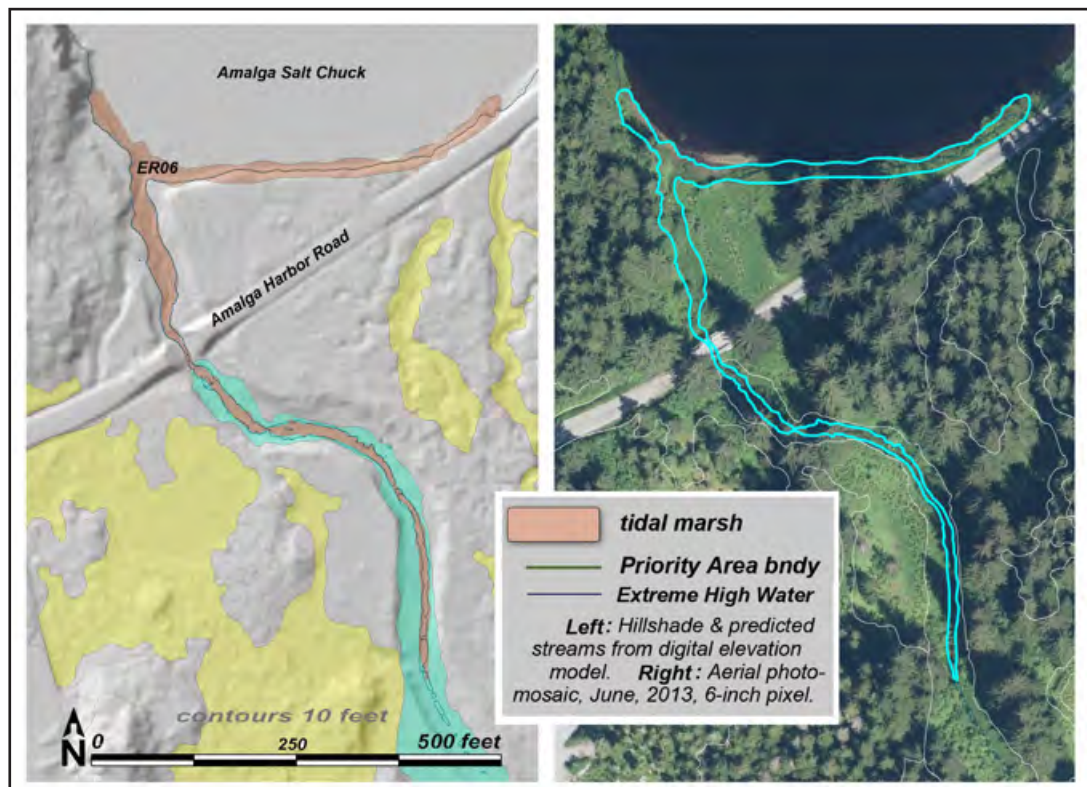
Feeding Habitat, Anadromous Fish Habitat, and perhaps Carbon Sequestration and Sediment Retention—most tidal wetlands likely perform at a level that is orders of magnitude greater than performed by most non-tidal wetlands in Southeast Alaska.

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ER06 • **type:** tidal •
acres: 0.5 • **boundary**
criteria: w-u, type • **pin:**
 3B4001000060 • known or
 probable anadromous fish

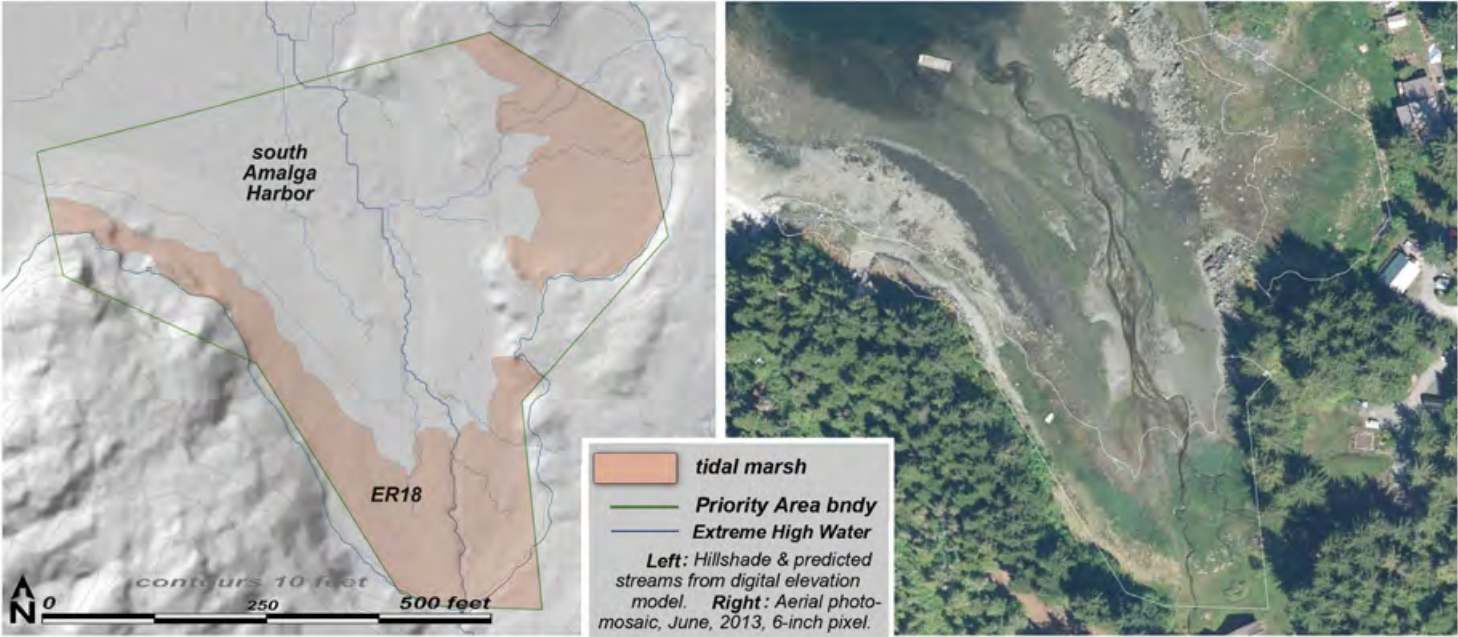
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	7.37	Higher	9.52	Higher
Native Plant Habitat	3.16	Moderate	10.00	Higher
Sediment Retention & Stabilization	4.26	Moderate	0.00	Lower
Songbird, Raptor, & Mammal Habitat	4.25	Moderate	0.00	Lower
Waterbird Feeding Habitat	5.76	Moderate	3.33	Lower
Carbon Sequestration	0.00	Lower	N.A.	N.A.
Organic Nutrient Export	2.49	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	9.10	Higher
Wetland Sensitivity	N.A.	N.A.	4.04	Moderate
Wetland Stressors	N.A.	N.A.	0.00	Lower





ER18 • type: tidal • **acres:** 0.7 • **boundary criteria:** w-u, pa • **pin:** 3B4001040050 • known or probable anadromous fish

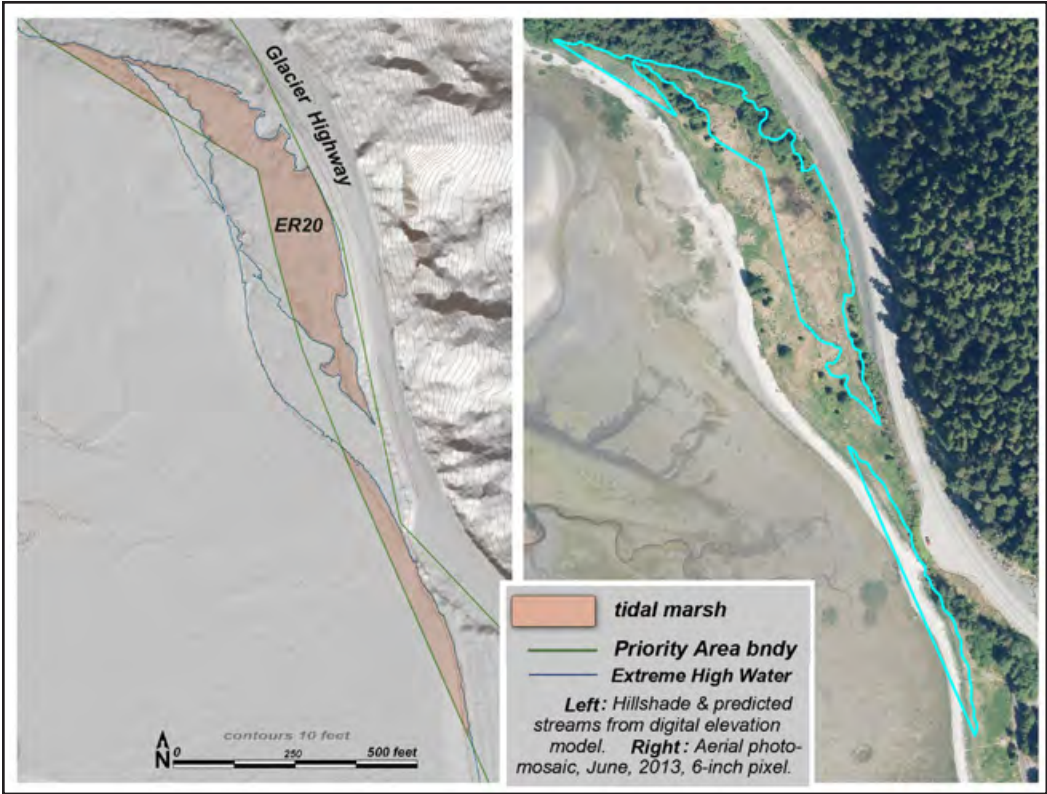
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Sediment Retention & Stabilization	10.00	Higher	10.00	Higher
Carbon Sequestration	6.00	Higher	N.A.	N.A.
Organic Nutrient Export	7.97	Higher	N.A.	N.A.
Anadromous Fish Habitat	3.75	Moderate	7.14	Moderate
Native Plant Habitat	0.62	Lower	10.00	Higher
Waterbird Feeding Habitat	1.40	Lower	6.67	Moderate
Songbird, Raptor, & Mammal Habitat	0.03	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	10.00	Higher
Wetland Sensitivity	N.A.	N.A.	3.39	Moderate





ER20 • type: tidal • acres: 2.9 • boundary criteria: w-u, pa • pin: 3B4404000010 • known or probable anadromous fish

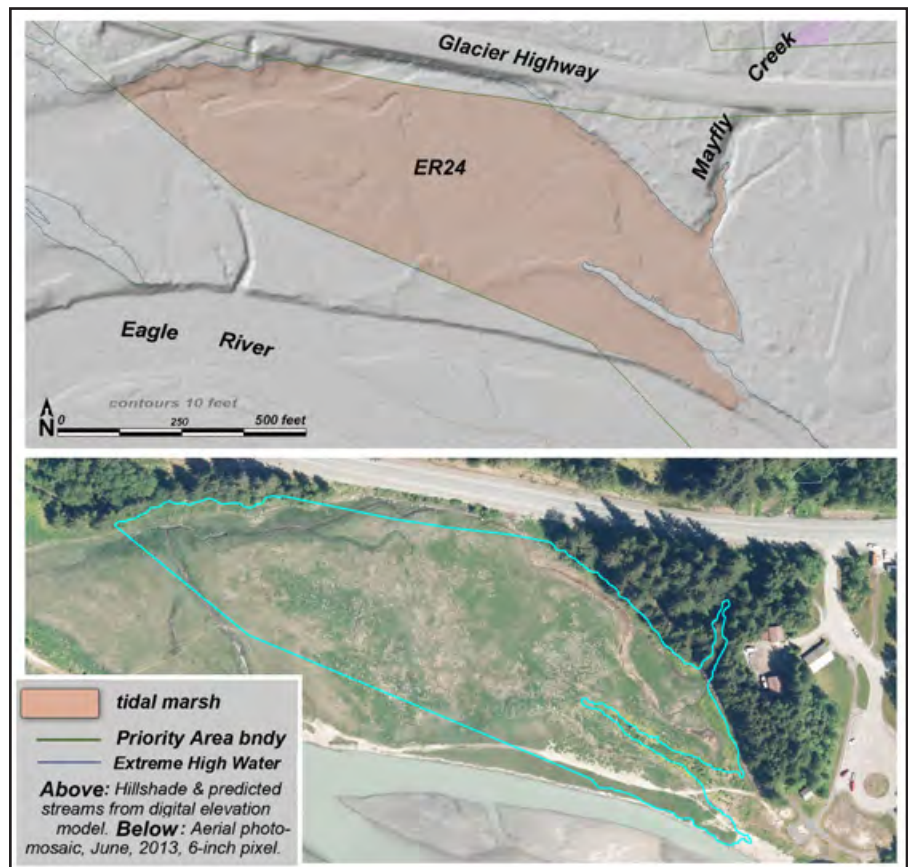
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	9.65	Higher	10.00	Higher
Native Plant Habitat	8.58	Higher	10.00	Higher
Sediment Retention & Stabilization	10.00	Higher	8.39	Higher
Songbird, Raptor, & Mammal Habitat	8.82	Higher	0.00	Lower
Carbon Sequestration	6.60	Higher	N.A.	N.A.
Organic Nutrient Export	5.31	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	1.08	Lower	2.67	Lower
Wetland Sensitivity	N.A.	N.A.	10.00	Higher
Public Use & Recognition	N.A.	N.A.	6.87	Moderate
Wetland Stressors	N.A.	N.A.	5.80	Moderate





ER24 • **type:** tidal •
acres: 8.6 • **boundary**
criteria: w-u, pa • **pin:**
 3B4404000010 • known or
 probable anadromous fish

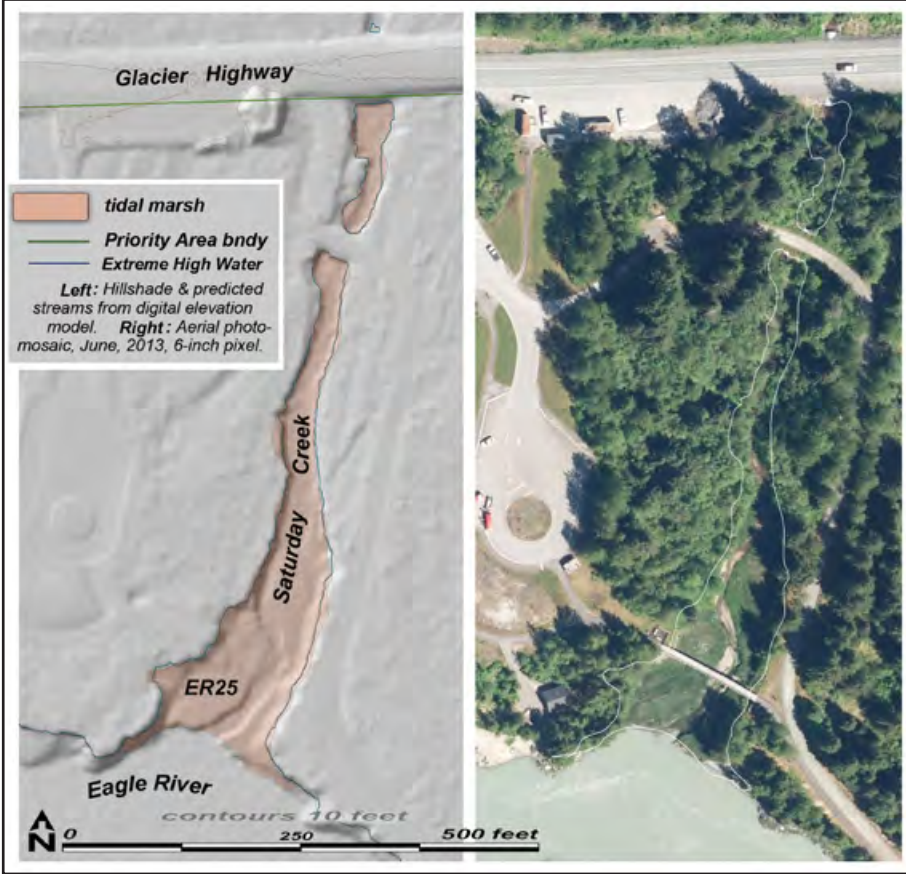
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	7.87	Higher	10.00	Higher
Sediment Retention & Stabilization	10.00	Higher	6.89	Higher
Songbird, Raptor, & Mammal Habitat	8.21	Higher	0.00	Lower
Organic Nutrient Export	7.11	Higher	N.A.	N.A.
Carbon Sequestration	2.09	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	2.08	Lower	2.67	Lower
Public Use & Recognition	N.A.	N.A.	9.25	Higher
Wetland Stressors	N.A.	N.A.	8.30	Higher
Wetland Sensitivity	N.A.	N.A.	3.93	Moderate





ER25 • **type:** tidal •
acres: 1.1 • **boundary**
criteria: w-u, pa • **pin:**
3B4404000010 • known or
probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	7.90	Higher	10.00	Higher
Native Plant Habitat	5.89	Higher	10.00	Higher
Sediment Retention & Stabilization	10.00	Higher	4.79	Moderate
Organic Nutrient Export	7.85	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	4.74	Moderate	0.00	Lower
Carbon Sequestration	2.84	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	0.00	Lower	2.67	Lower
Public Use & Recognition	N.A.	N.A.	9.25	Higher
Wetland Stressors	N.A.	N.A.	6.89	Higher
Wetland Sensitivity	N.A.	N.A.	3.60	Moderate

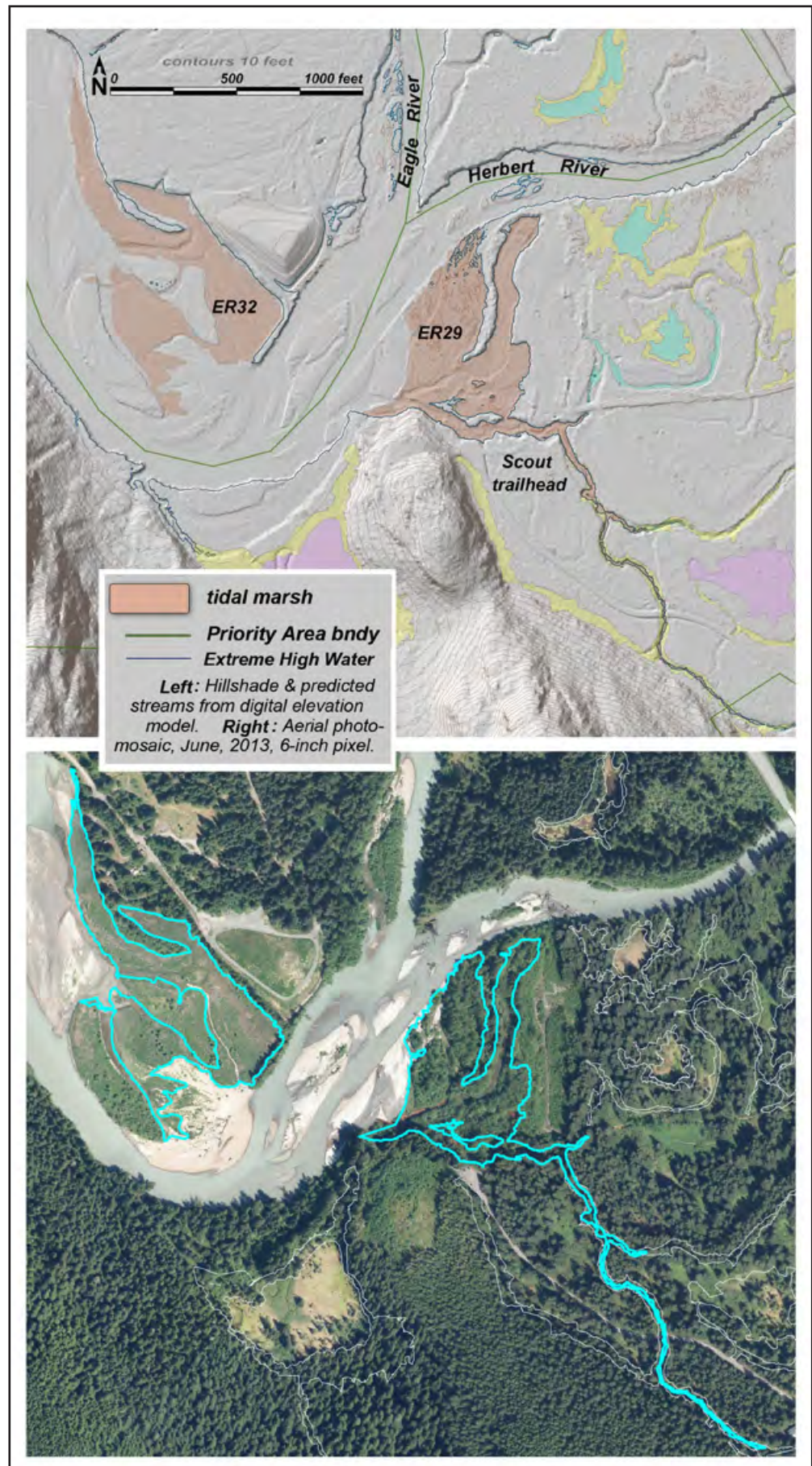




ER29 • type: tidal •
acres: 9.6 • boundary crite-
ria: w-u • pin: 3B4404000010
• known or probable anadro-
mous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Anadromous Fish Habitat	7.52	Higher	7.62	Moderate
Sediment Retention & Stabilization	10.00	Higher	3.90	Moderate
Native Plant Habitat	10.00	Higher	0.00	Lower
Songbird, Raptor, & Mammal Habitat	10.00	Higher	0.00	Lower
Waterbird Feeding Habitat	3.51	Moderate	0.00	Lower
Carbon Sequestration	0.42	Lower	N.A.	N.A.
Organic Nutrient Export	1.99	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	5.37	Moderate
Wetland Stressors	N.A.	N.A.	4.01	Moderate
Wetland Sensitivity	N.A.	N.A.	0.00	Lower

Unit maps for ER29 & ER





ER32 • **type:** tidal •
acres: 9.2 • **bound-**
ary criteria: w-u • **pin:**
3B4404000010 • **known or**
probable anadromous fish

will correct in table

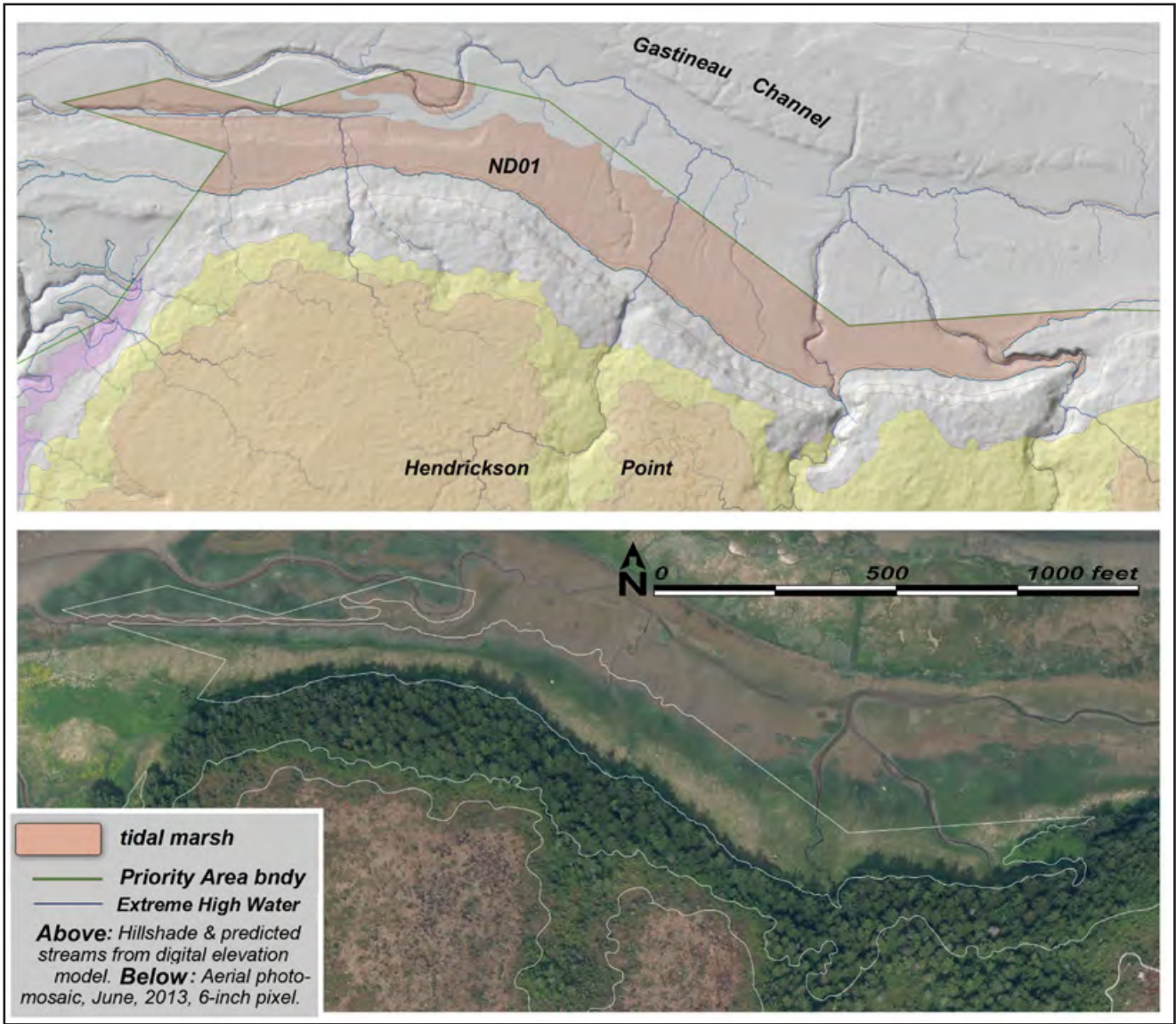
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Native Plant Habitat	7.61	Higher	10.00	Higher
Sediment Retention & Stabilization	10.00	Higher	4.79	Moderate
Songbird, Raptor, & Mammal Habitat	7.58	Higher	0.00	Lower
Organic Nutrient Export	5.22	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Waterbird Feeding Habitat	0.47	Lower	2.67	Lower
Carbon Sequestration	0.70	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	8.96	Higher
Wetland Stressors	N.A.	N.A.	6.83	Higher

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ND01 • **type:** tidal •
acres: 6.6 • **boundary**
criteria: w-u, pa • **pin:**
 6D1001040010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	9.45	Higher	10.00	Higher
Anadromous Fish Habitat	6.42	Higher	7.14	Moderate
Sediment Retention & Stabilization	10.00	Higher	2.70	Moderate
Carbon Sequestration	10.00	Higher	N.A.	N.A.
Organic Nutrient Export	10.00	Higher	N.A.	N.A.
Songbird, Raptor, & Mammal Habitat	3.81	Moderate	10.00	Higher
Native Plant Habitat	3.60	Moderate	0.00	Lower
Wetland Sensitivity	N.A.	N.A.	2.48	Moderate
Public Use & Recognition	N.A.	N.A.	0.00	Lower
Wetland Stressors	N.A.	N.A.	0.35	Lower



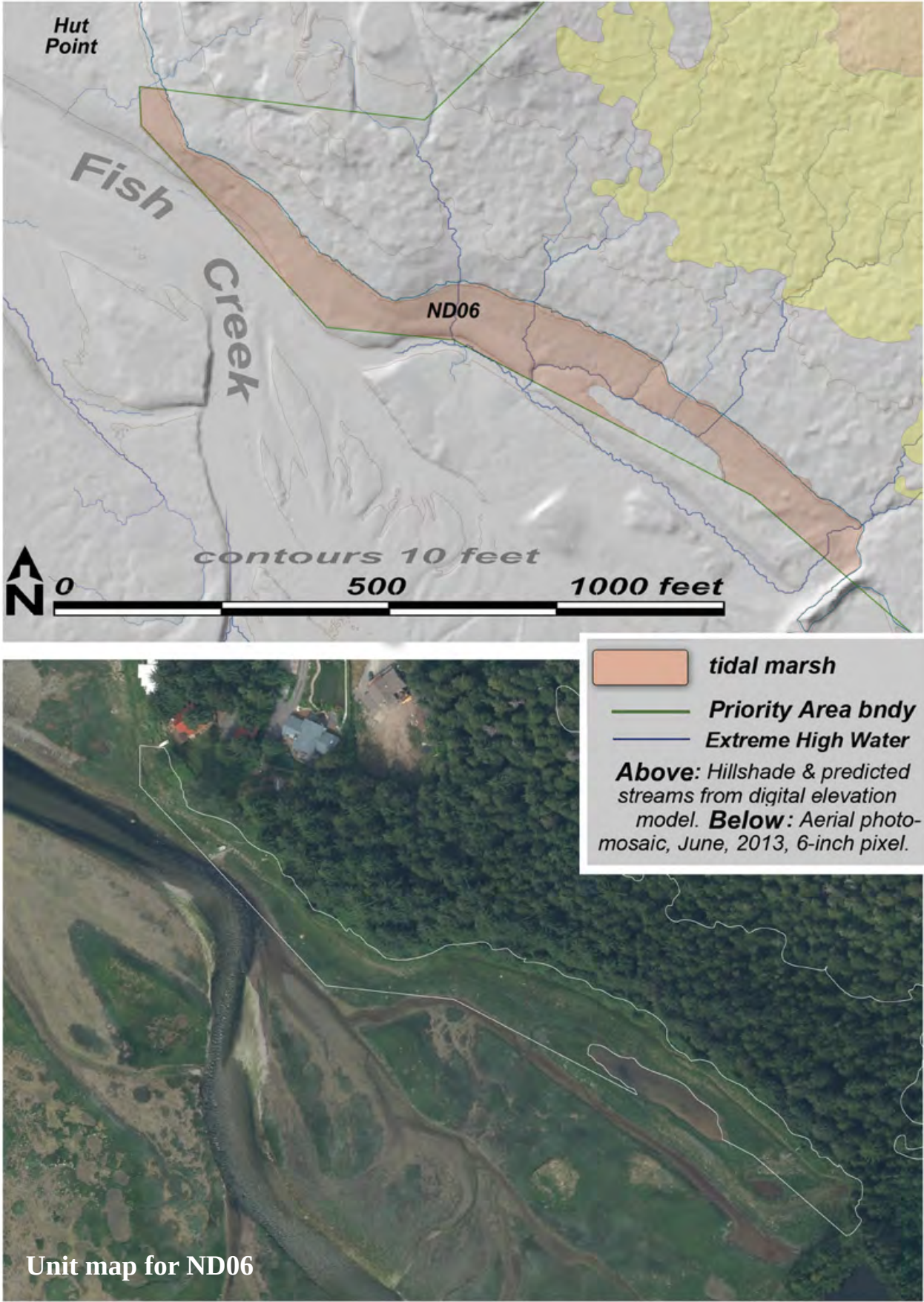
Unit map for ND01

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ND06 • **type:** tidal •
acres: 2.2 • **boundary**
criteria: w-u, pa • **pin:**
 6D1201050010 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	7.55	Higher	10.00	Higher
Native Plant Habitat	7.35	Higher	0.00	Lower
Sediment Retention & Stabilization	10.00	Higher	0.00	Lower
Anadromous Fish Habitat	3.00	Moderate	9.52	Higher
Waterbird Feeding Habitat	6.40	Moderate	10.00	Higher
Carbon Sequestration	3.49	Moderate	N.A.	N.A.
Organic Nutrient Export	5.71	Moderate	N.A.	N.A.
Wetland Stressors	N.A.	N.A.	7.98	Higher
Public Use & Recognition	N.A.	N.A.	5.07	Moderate
Wetland Sensitivity	N.A.	N.A.	0.00	Lower



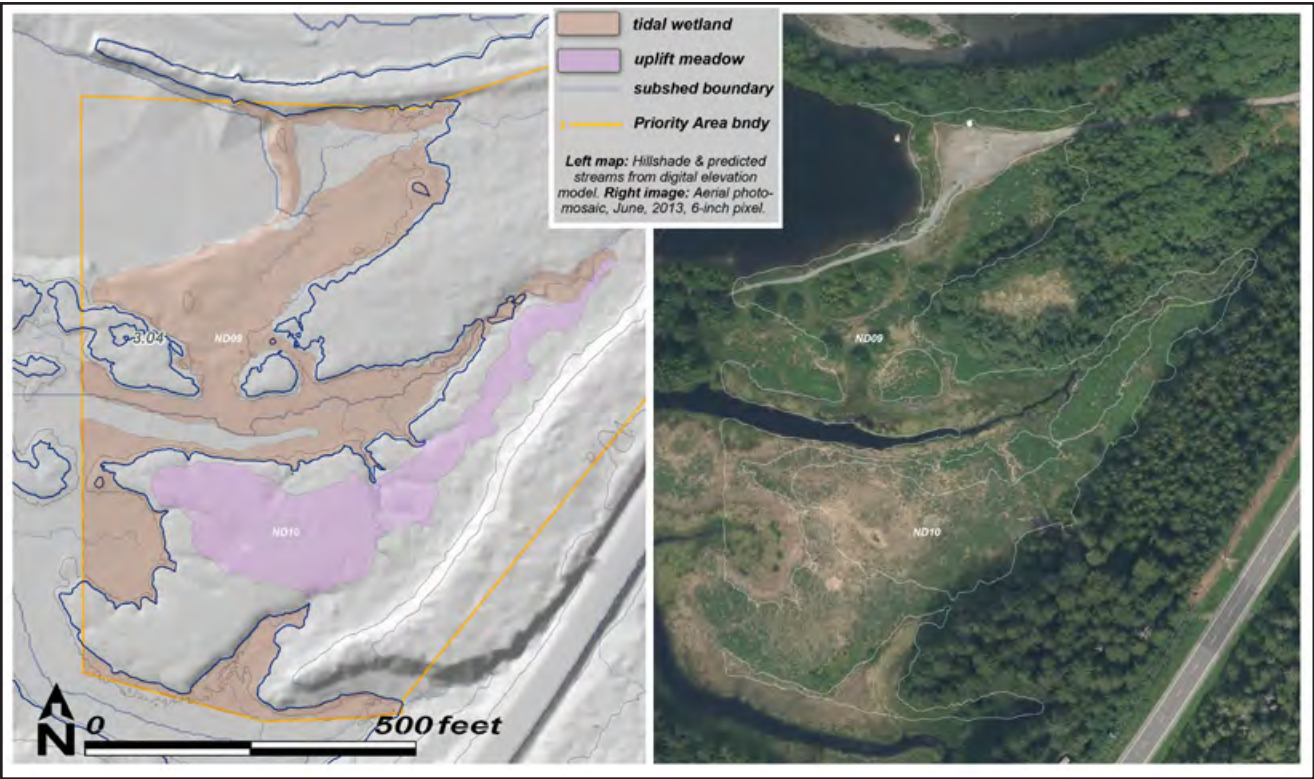


ND09 • **type:** tidal •
acres: 2.9 • **boundary**
criteria: w-u, pa • **pin:**
6D1201070010 • **known or**
probable anadromous fish

will correct in tabel

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	8.89	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	7.40	Higher	0.00	Lower
Sediment Retention & Stabilization	0.64	Lower	2.32	Moderate
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Carbon Sequestration	0.23	Lower	N.A.	N.A.
Organic Nutrient Export	0.84	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	6.12	Moderate
Wetland Sensitivity	N.A.	N.A.	4.31	Moderate
Wetland Stressors	N.A.	N.A.	4.73	Moderate

Unit map for ND09

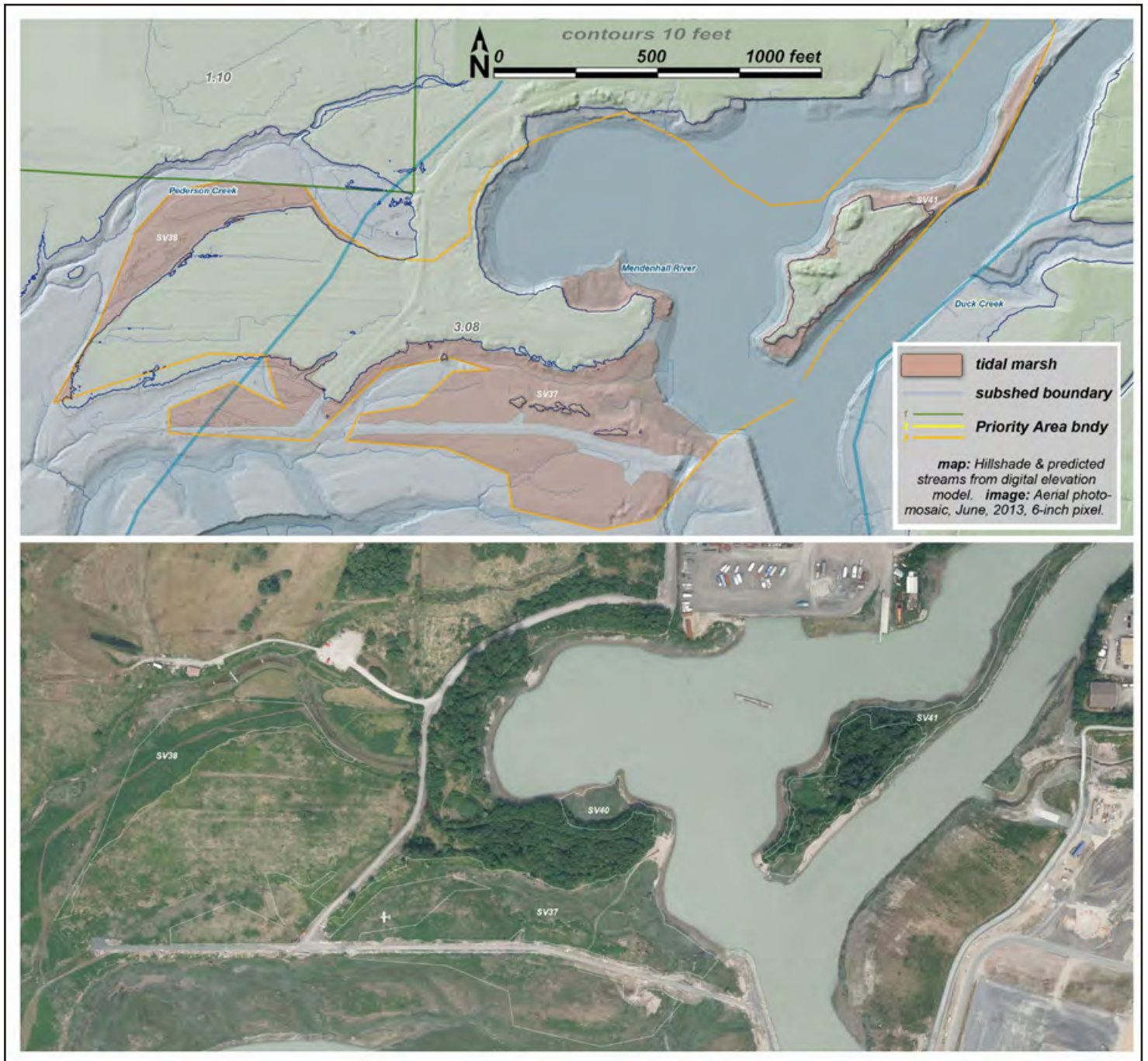




SV37 • **type:** tidal •
acres: 8.83 • **boundary**
criteria: w-u, pa • **pin:**
4B1701160040 • **known or**
probable anadromous fish

will be corrected in table

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	8.33	Higher	10.00	Higher
Native Plant Habitat	3.27	Moderate	10.00	Higher
Songbird, Raptor, & Mammal Habitat	5.89	Moderate	10.00	Higher
Sediment Retention & Stabilization	3.96	Moderate	0.60	Lower
Carbon Sequestration	2.09	Moderate	N.A.	N.A.
Organic Nutrient Export	4.29	Moderate	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	6.72	Moderate
Wetland Sensitivity	N.A.	N.A.	3.11	Moderate
Wetland Stressors	N.A.	N.A.	5.74	Moderate



Unit maps for SV37 38 41



SV38 • **type:** tidal •
acres: 2.33 • **boundary**
criteria: w-u, pa • **pin:**
 4B1701160040 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Native Plant Habitat	6.74	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	8.24	Higher	10.00	Higher
Anadromous Fish Habitat	4.00	Moderate	7.14	Moderate
Carbon Sequestration	1.63	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	1.40	Lower	10.00	Higher
Sediment Retention & Stabilization	0.00	Lower	0.00	Lower
Organic Nutrient Export	0.00	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	5.46	Higher
Public Use & Recognition	N.A.	N.A.	7.61	Moderate
Wetland Stressors	N.A.	N.A.	5.57	Moderate



SV41 • type: tidal •
acres: 1.4 • boundary
criteria: w-u, pa • pin:
4B1701160040 • known or
probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Waterbird Feeding Habitat	5.88	Moderate	10.00	Higher
Anadromous Fish Habitat	4.34	Moderate	7.14	Moderate
Organic Nutrient Export	4.52	Moderate	N.A.	N.A.
Native Plant Habitat	0.00	Lower	10.00	Higher
Songbird, Raptor, & Mammal Habitat	0.96	Lower	10.00	Higher
Sediment Retention & Stabilization	1.49	Lower	1.80	Lower
Carbon Sequestration	1.30	Lower	N.A.	N.A.
Wetland Sensitivity	N.A.	N.A.	6.00	Higher
Public Use & Recognition	N.A.	N.A.	4.93	Moderate
Wetland Stressors	N.A.	N.A.	5.33	Moderate



4.0 SCORES BY AA: OFF-SITE MAPPING

In 2015, after conclusion of JWMPU field work, we assessed 48 wetland units ‘site-unseen’ through GIS. Methods are described in Volume 1, Section 2.3.4. Most of these Assessment Areas (AAs) are on private lands, with the exception of CBJ land on the south-eastern tip of Douglas Island.

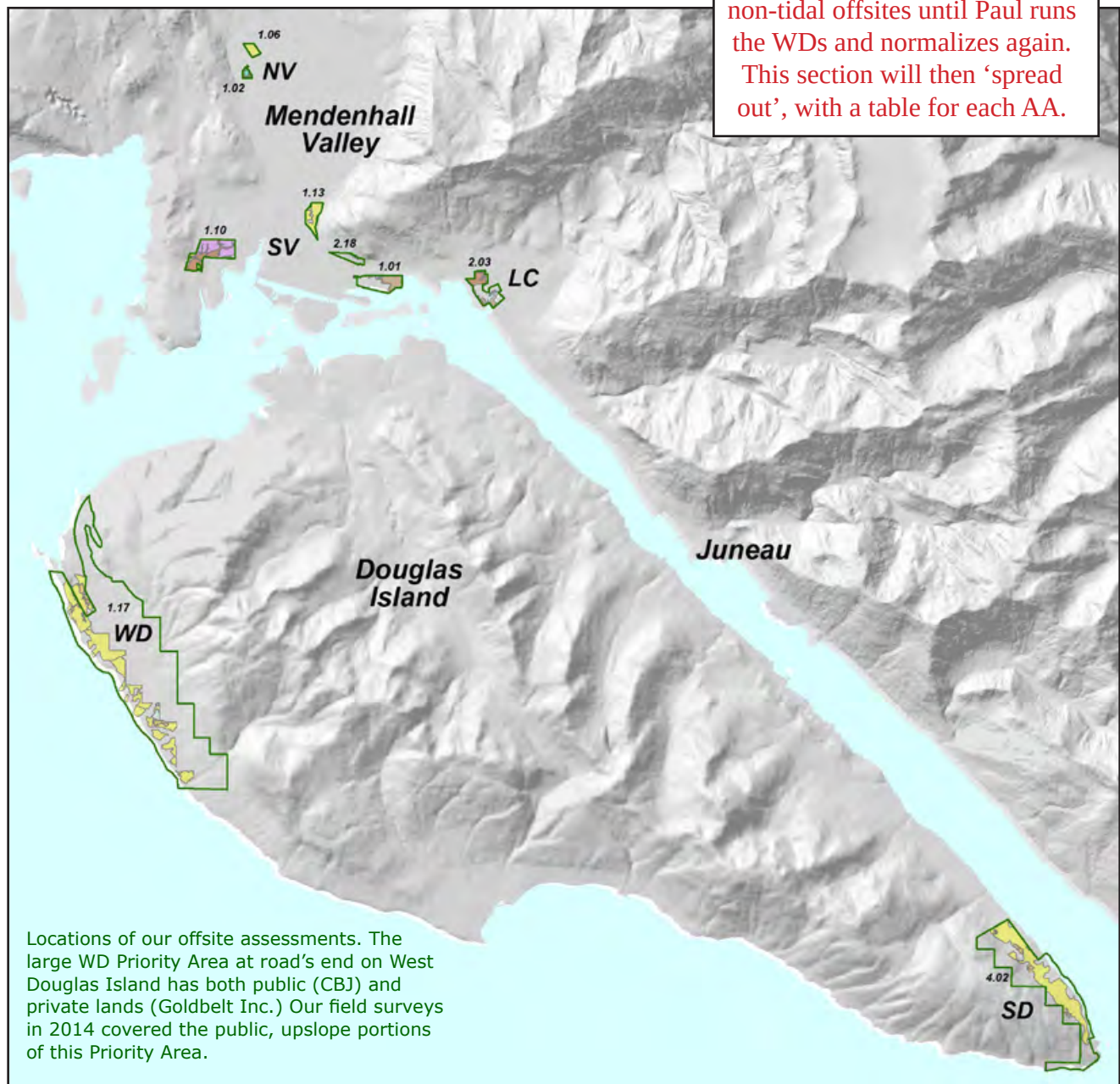
The overview map below shows that the off-site Priority Areas are clustered in Mendenhall and Lemon Creek Valleys, along with 2 outlying larger PAs on the distal ends of Douglas Island. Completing the seaward, private portions of the West Douglas (WD)

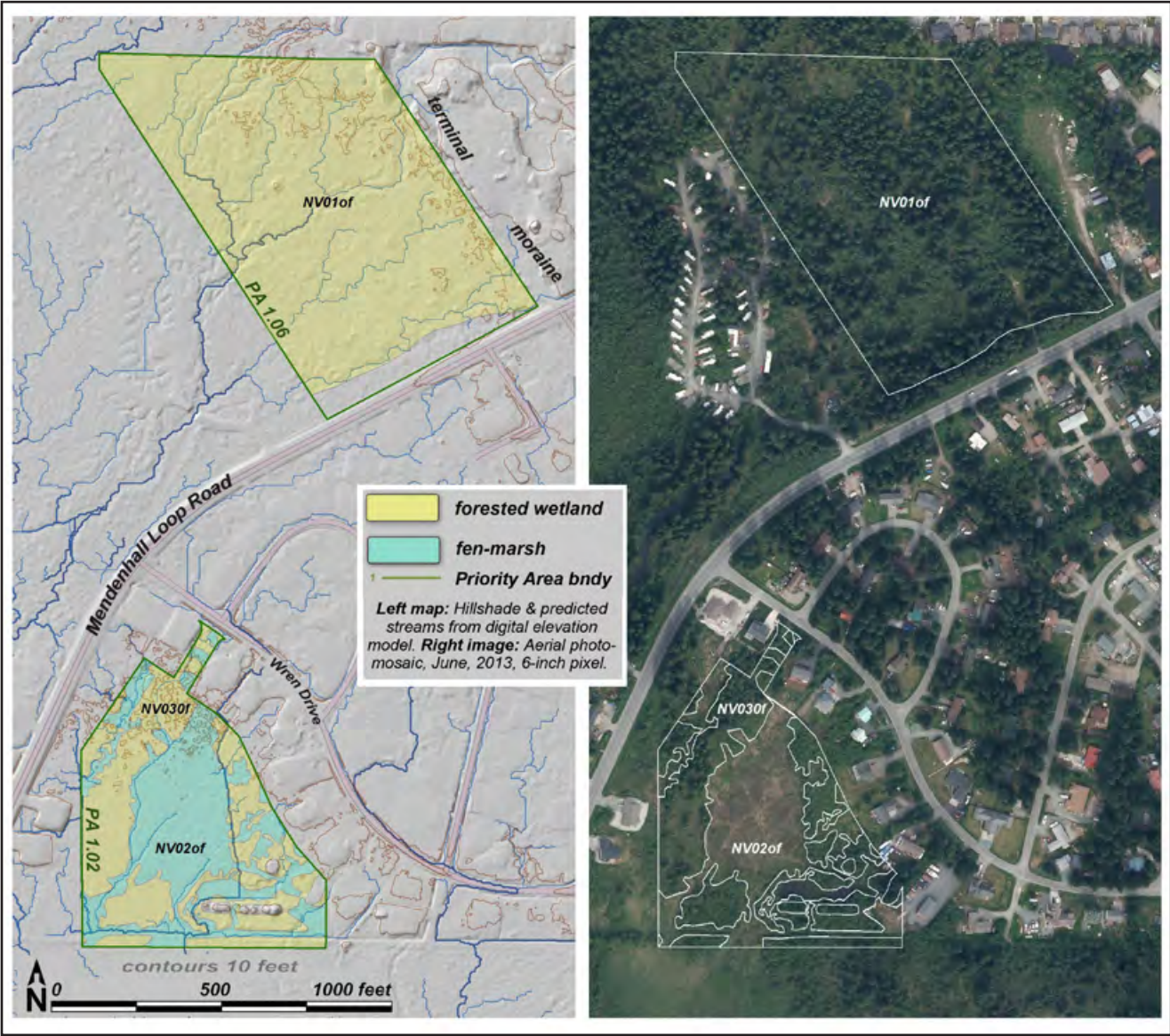
Priority Area 1.17—where we had already spent several weeks exploring public lands—allowed us to paint a fuller picture of the extent of wetlands in this unit.

In the previous Sections 2 and 3, results for non-tidal and tidal wetlands are segregated. Here, we intermingle them, in part because the unit maps often span both wetland types.

To reviewers:

Scores aren’t finished for the non-tidal offsites until Paul runs the WDs and normalizes again. This section will then ‘spread out’, with a table for each AA.

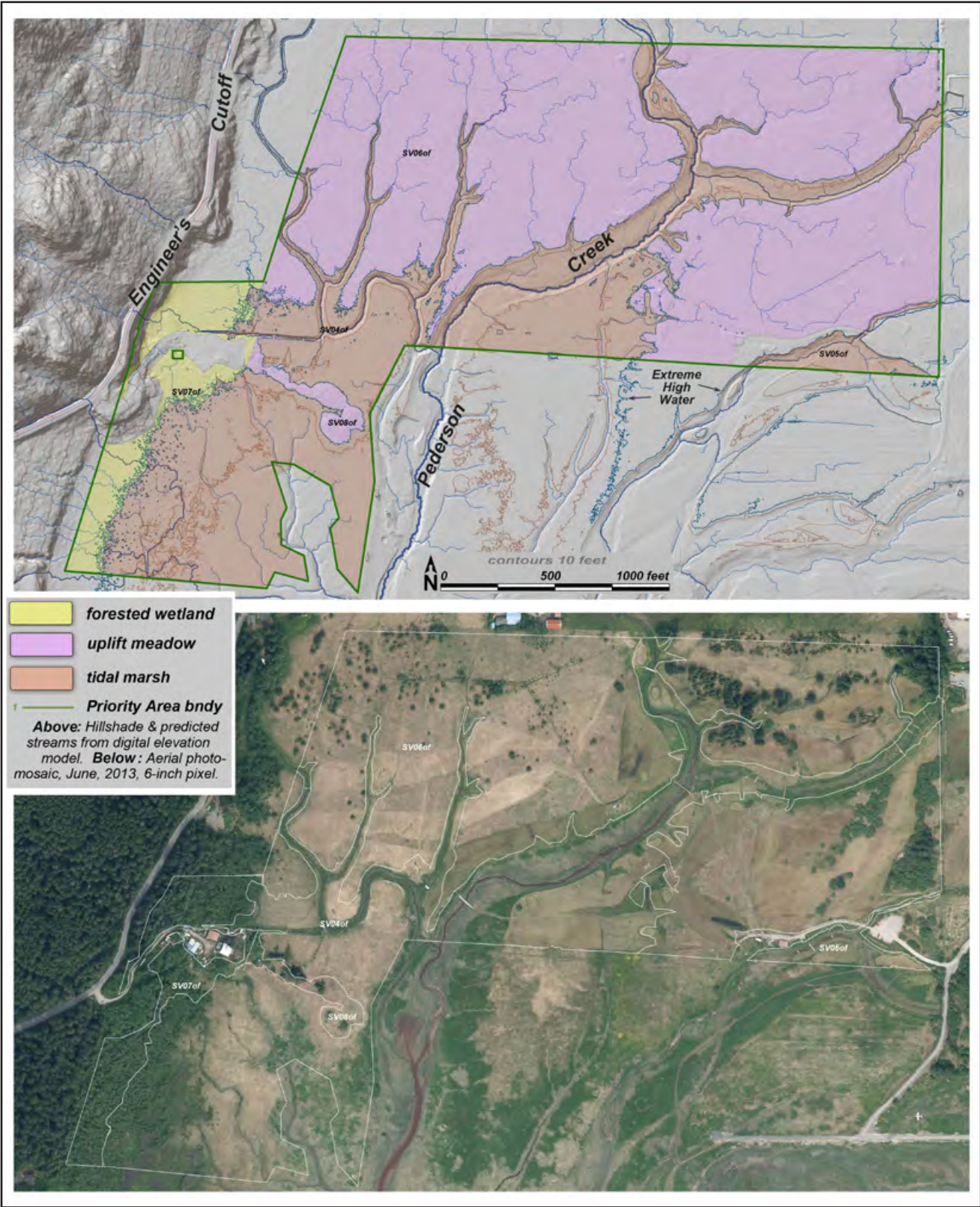




NV01of • **type:** forested peatland • **acres:** 16.74 • **boundary criteria:** w-u, pa • **pin:** 4B2901020020
• known or probable anadromous fish

NV02of • **type:** fen/marsh • **acres:** 5.23 • **boundary criteria:** w-u, type, pa • **pin:** 4B2601200040
• known or probable anadromous fish

NV03of • **type:** forested peatland • **acres:** 5.04 • **boundary criteria:** w-u, type, pa • **pin:**
4B2601200040 • known or probable anadromous fish



SV04of • **type:** tidal wetland
 • **acres:** 42.42 • **boundary**
criteria: w-u, type pa • **pin:**
 4B1701170011 • known or
 probable anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	10.00	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	9.09	Higher	10.00	Higher
Anadromous Fish Habitat	7.33	Higher	10.00	Higher
Carbon Sequestration	4.37	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	3.87	Moderate	0.75	Lower
Organic Nutrient Export	1.96	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	5.35	Moderate
Wetland Sensitivity	N.A.	N.A.	4.81	Higher

SV05of • **type:** tidal wetland
 • **acres:** 1.86 • **boundary**
criteria: w-u, type pa • **pin:**
 4B1701170011 • known or
 probable anadromous fish

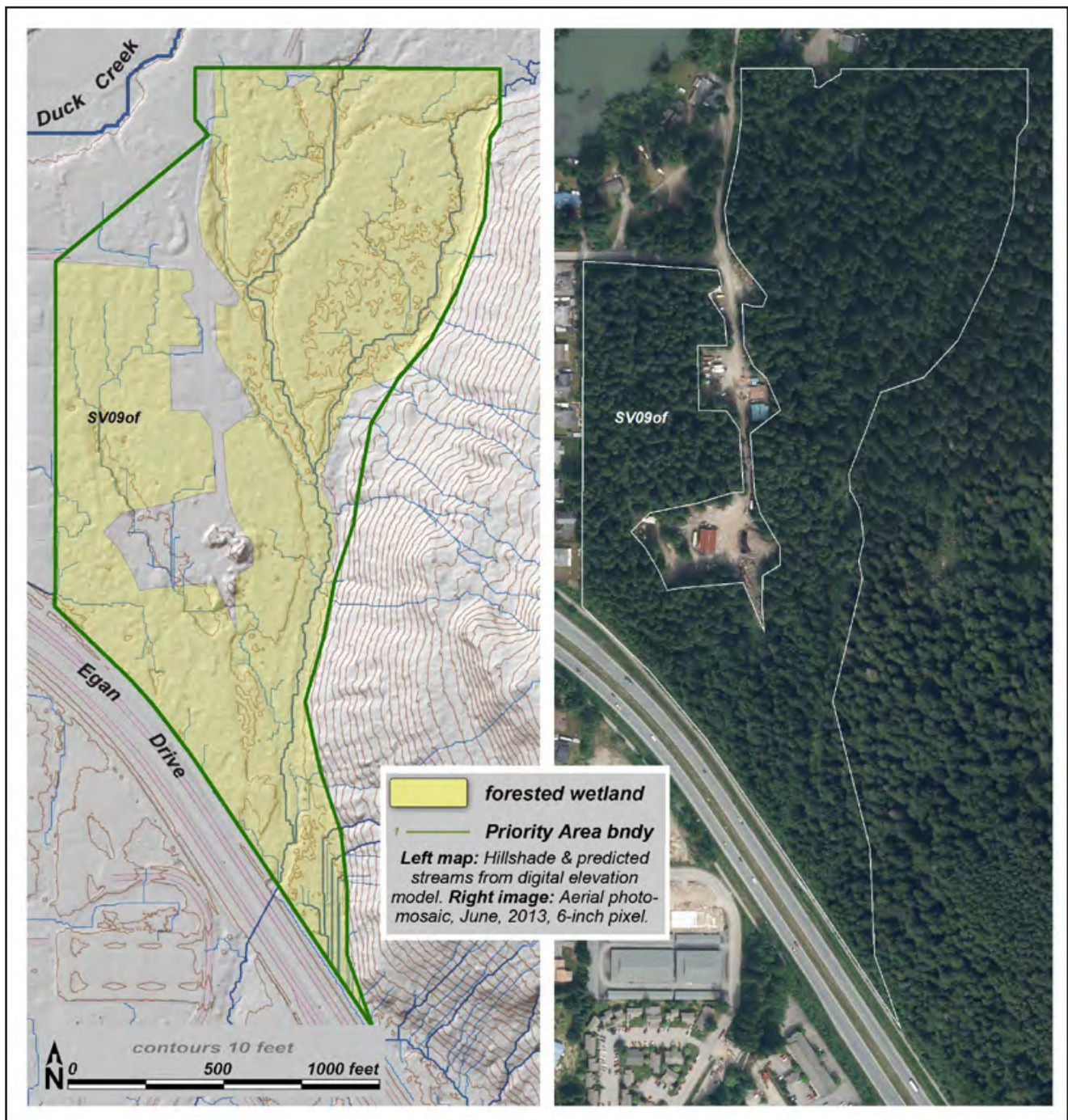
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	10.00	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	9.09	Higher	10.00	Higher
Anadromous Fish Habitat	7.33	Higher	10.00	Higher
Carbon Sequestration	4.37	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	3.87	Moderate	0.75	Lower
Organic Nutrient Export	1.96	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	5.35	Moderate
Wetland Sensitivity	N.A.	N.A.	4.81	Higher

tidal offsite scores are normalized 'against each other.' Tables above are therefore final—not awaiting the WD scores as with the non-tidal units.

SV06of • **type:** uplift meadow • **acres:** 64.55 • **boundary criteria:** w-u, type pa • **pin:**
 4B1701170011 • known or probable anadromous fish

SV07of • **type:** forested peatland • **acres:** 6.08 • **boundary criteria:** w-u, type pa • **pin:**
 4B1701160020 • known or probable anadromous fish

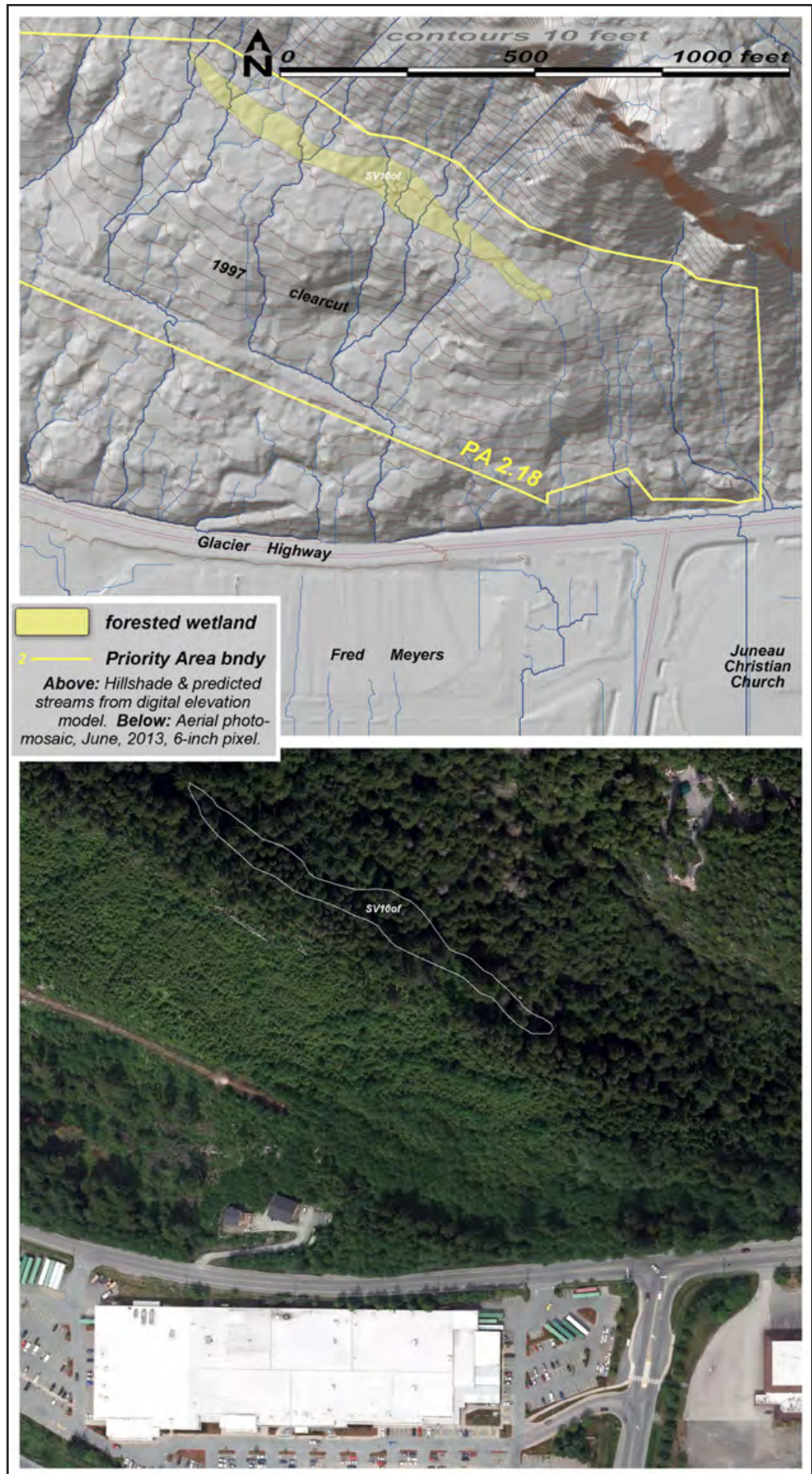
SV08of • **type:** uplift meadow • **acres:** 1.29 • **boundary criteria:** w-u, type pa • **pin:** 4B1701160020
 • known or probable anadromous fish



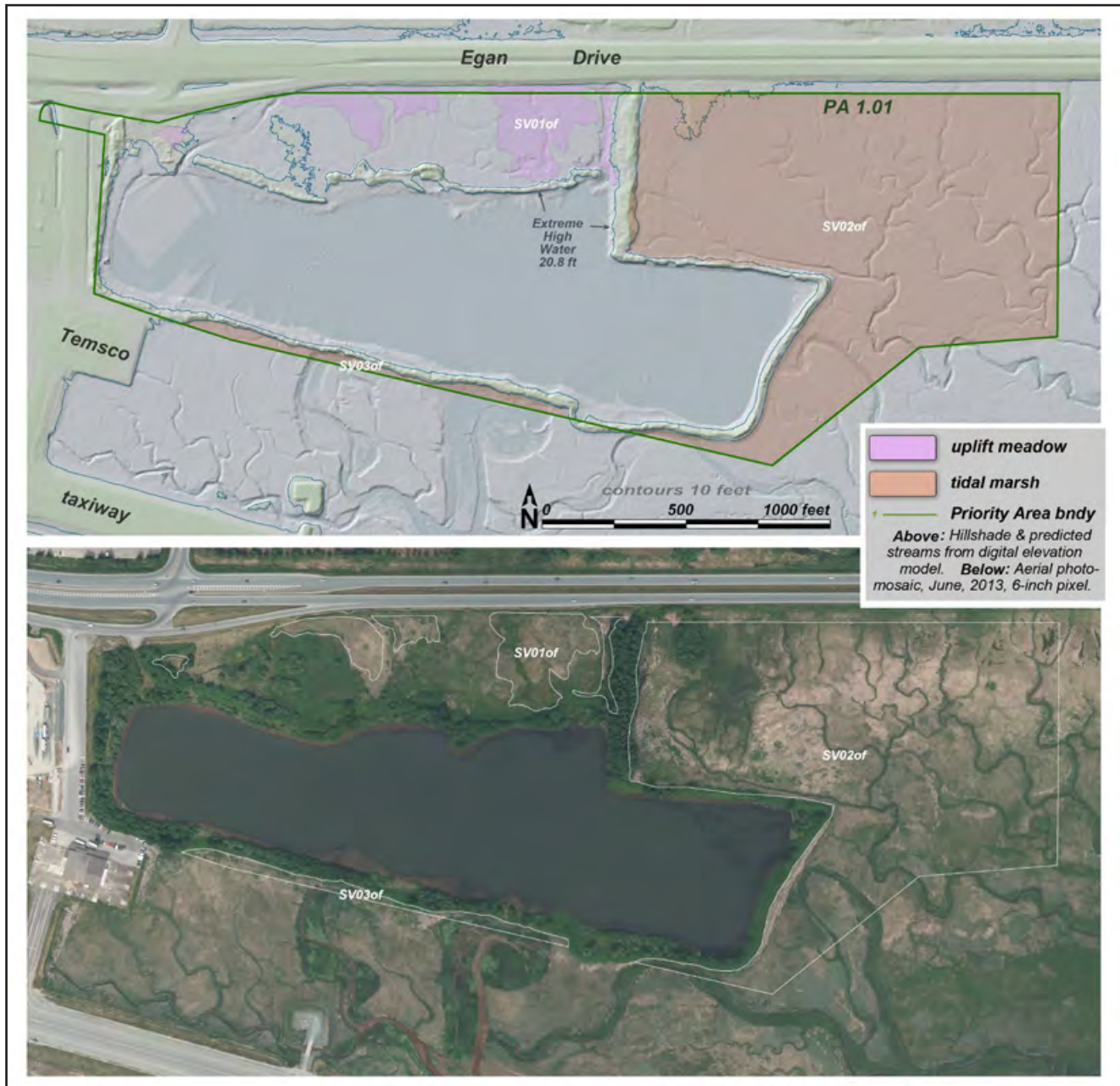
SV09of • **type:** forested peatland • **acres:** 38.37 • **boundary criteria:** w-u, pa • **pin:** 5B1501120010

• known or probable anadromous fish

SV09of • **type:**
forested peatland
acres: 0.98 • **bound-**
ary criteria: w-u •
pin: 5B1501000010 •
no known or probable
anadromous fish



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SV02 of • **type:** tidal wetland
 • **acres:** 30.93 • **bound-**
ary criteria: w-u, pa • **pin:**
 5B1401020070 • **known or**
probable anadromous fish

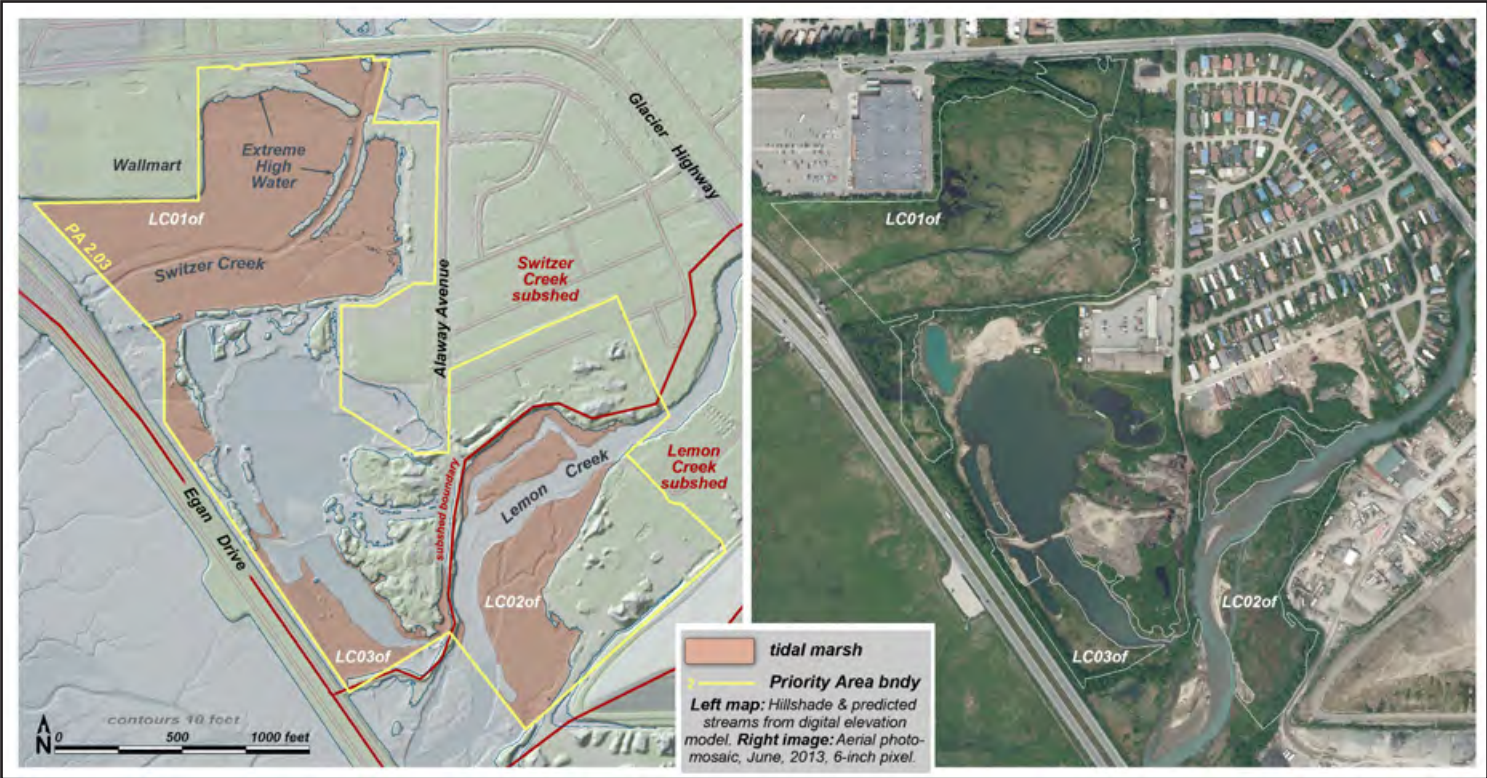
will correct in table

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	10.00	Higher	10.00	Higher
Waterbird Feeding Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	9.65	Higher	4.12	Higher
Sediment Retention & Stabilization	4.38	Moderate	5.69	Higher
Carbon Sequestration	4.37	Moderate	N.A.	N.A.
Organic Nutrient Export	2.40	Lower	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	7.56	Higher
Wetland Sensitivity	N.A.	N.A.	3.93	Moderate

SV03 of • **type:** tidal wetland
 • **acres:** 1.1 • **bound-**
ary criteria: w-u, pa • **pin:**
 5B1401020070 • **known or**
probable anadromous fish

will correct in table

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	10.00	Higher	10.00	Higher
Native Plant Habitat	9.93	Higher	4.12	Higher
Waterbird Feeding Habitat	7.67	Higher	10.00	Higher
Carbon Sequestration	3.91	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	1.62	Lower	5.69	Higher
Organic Nutrient Export	0.13	Lower	N.A.	N.A.
Anadromous Fish Habitat	0.00	Lower	0.00	Lower
Public Use & Recognition	N.A.	N.A.	9.40	Higher
Wetland Stressors	N.A.	N.A.	6.79	Higher
Wetland Sensitivity	N.A.	N.A.	4.48	Higher



LC01 of • **type:** tidal wetland
 • **acres:** 23.81 • **bound-**
ary criteria: w-u, pa • **pin:**
 5B1301070035 37 • known or
 probable anadromous fish

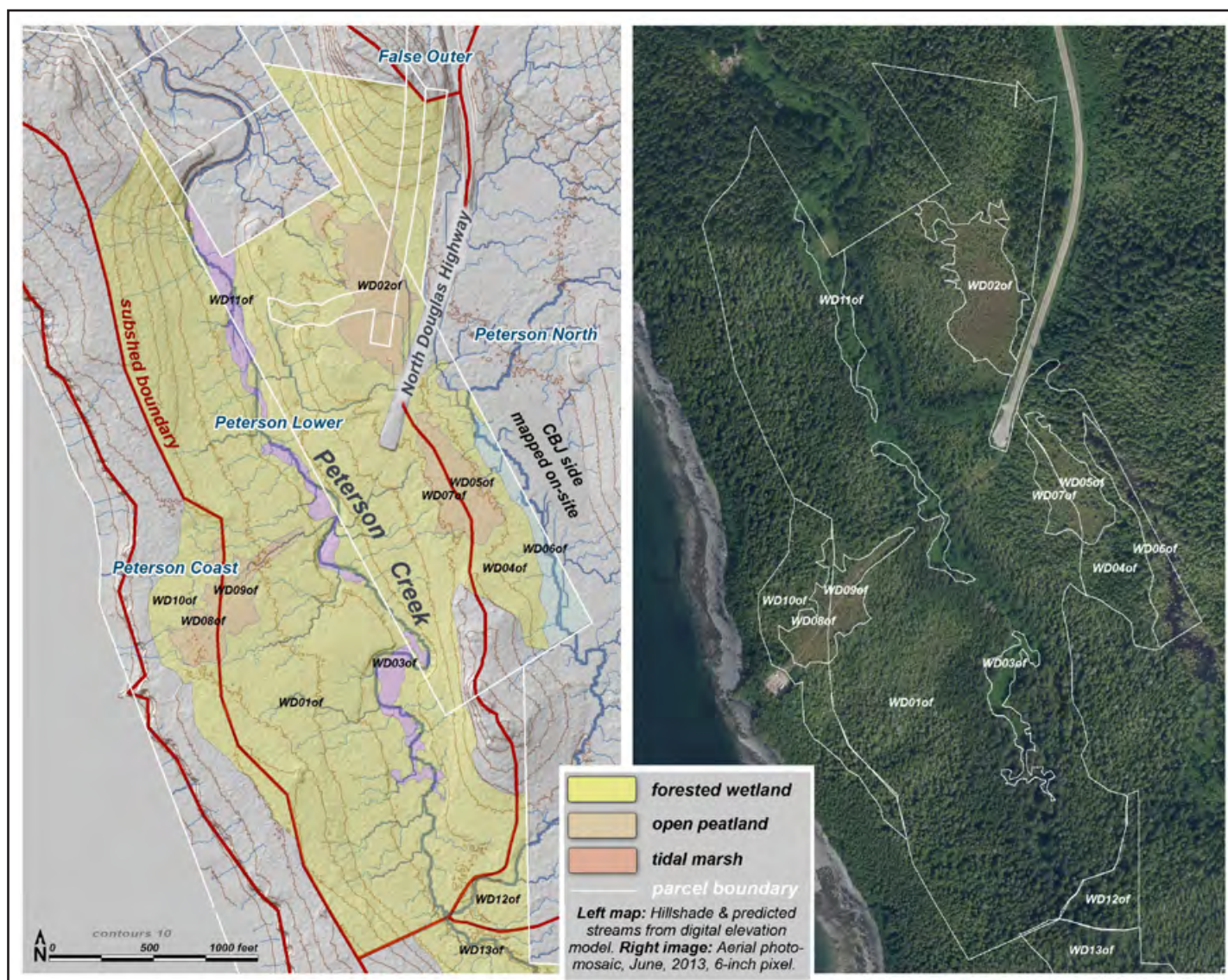
Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.28	Higher	10.00	Higher
Native Plant Habitat	8.66	Higher	10.00	Higher
Carbon Sequestration	4.14	Moderate	N.A.	N.A.
Waterbird Feeding Habitat	4.07	Moderate	10.00	Higher
Anadromous Fish Habitat	3.57	Moderate	10.00	Higher
Sediment Retention & Stabilization	1.70	Lower	2.55	Moderate
Organic Nutrient Export	1.23	Lower	N.A.	N.A.
Public Use & Recognition	N.A.	N.A.	10.00	Higher
Wetland Stressors	N.A.	N.A.	6.27	Higher
Wetland Sensitivity	N.A.	N.A.	6.06	Higher

LC02 of • **type:** tidal wetland
 • **acres:** 8.76 • **boundary**
criteria: w-u, pa, subsh • **pin:**
 5B1201060181 5B1301190000
 • known or probable anadromous
 fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Carbon Sequestration	7.75	Higher	N.A.	N.A.
Native Plant Habitat	7.03	Higher	10.00	Higher
Songbird, Raptor, & Mammal Habitat	7.01	Higher	10.00	Higher
Waterbird Feeding Habitat	5.03	Moderate	10.00	Higher
Anadromous Fish Habitat	4.85	Moderate	10.00	Higher
Organic Nutrient Export	4.46	Moderate	N.A.	N.A.
Sediment Retention & Stabilization	2.89	Lower	7.83	Higher
Wetland Stressors	N.A.	N.A.	8.53	Higher
Public Use & Recognition	N.A.	N.A.	6.27	Higher
Wetland Sensitivity	N.A.	N.A.	5.75	Higher

LC03 of • **type:** tidal wetland
 • **acres:** 3.4 • **boundary**
criteria: w-u, pa, subsh • **pin:**
 5B1301070036 • known or prob-
 able anadromous fish

Function or Other Attribute	Function Score	Function Rating	Value Score	Value Rating
Songbird, Raptor, & Mammal Habitat	9.79	Higher	10.00	Higher
Native Plant Habitat	8.67	Higher	10.00	Higher
Carbon Sequestration	7.77	Higher	N.A.	N.A.
Anadromous Fish Habitat	5.18	Moderate	10.00	Higher
Organic Nutrient Export	3.75	Lower	N.A.	N.A.
Waterbird Feeding Habitat	1.87	Lower	10.00	Higher
Sediment Retention & Stabilization	0.30	Lower	6.14	Higher
Wetland Sensitivity	N.A.	N.A.	9.39	Higher
Wetland Stressors	N.A.	N.A.	8.22	Higher
Public Use & Recognition	N.A.	N.A.	0.90	Lower



*In the **boundary criteria** field for WD units below, “*par*” indicates the unit was split not along the priority area line (“*pa*”), but rather along the Goldbelt Inc./CBJ parcel boundary. Although we did report unit acreages to some private land owners strictly within their own properties, splitting was never a criterion for our on-site assessments; surveyed units spanned ownerships.

But in the case of these back-Douglas private lands, seaward of CBJ ownership, we performed the Goldbelt “assessments” sight-unseen, after all the on-site assessments were finished. Scores are assigned separately for the off-site units, even though many are contiguous with CBJ units of like type.

WD01of • **type:** for. peatl. • **acres:** 100.3 • **boundary criteria:** w-u, type, par,* subsh • **pin:** 3D1401000010 • known or probable anadromous fish

WD02of • **type:** open peatland • **acres:** 5.24 • **boundary criteria:** w-u, type, par • **pin:** 3D1401000010 • no known or probable anadromous fish

WD03of • **type:** uplift meadow • **acres:** 1.67 • **boundary criteria:** type • **pin:** 3D1401000020 • known or probable anadromous fish

WD04of • **type:** for. peatl. • **acres:** 6.12 • **boundary criteria:** w-u, type, par, subsh • **pin:** 3D1401000010 • known or probable anadromous fish

WD05of • **type:** open peatland • **acres:** 2.06 • **boundary criteria:** type, subsh • **pin:** 3D1401000010 • no known or probable anadromous fish

WD06of • **type:** forested peatland • **acres:** 2.91 • **boundary criteria:** type, par • **pin:** 3D1401000010 • known or probable anadromous fish

WD07of • **type:** open peatland • **acres:** 1.21 • **boundary criteria:** type, subsh • **pin:** 3D1401000010 • no known or probable anadromous fish

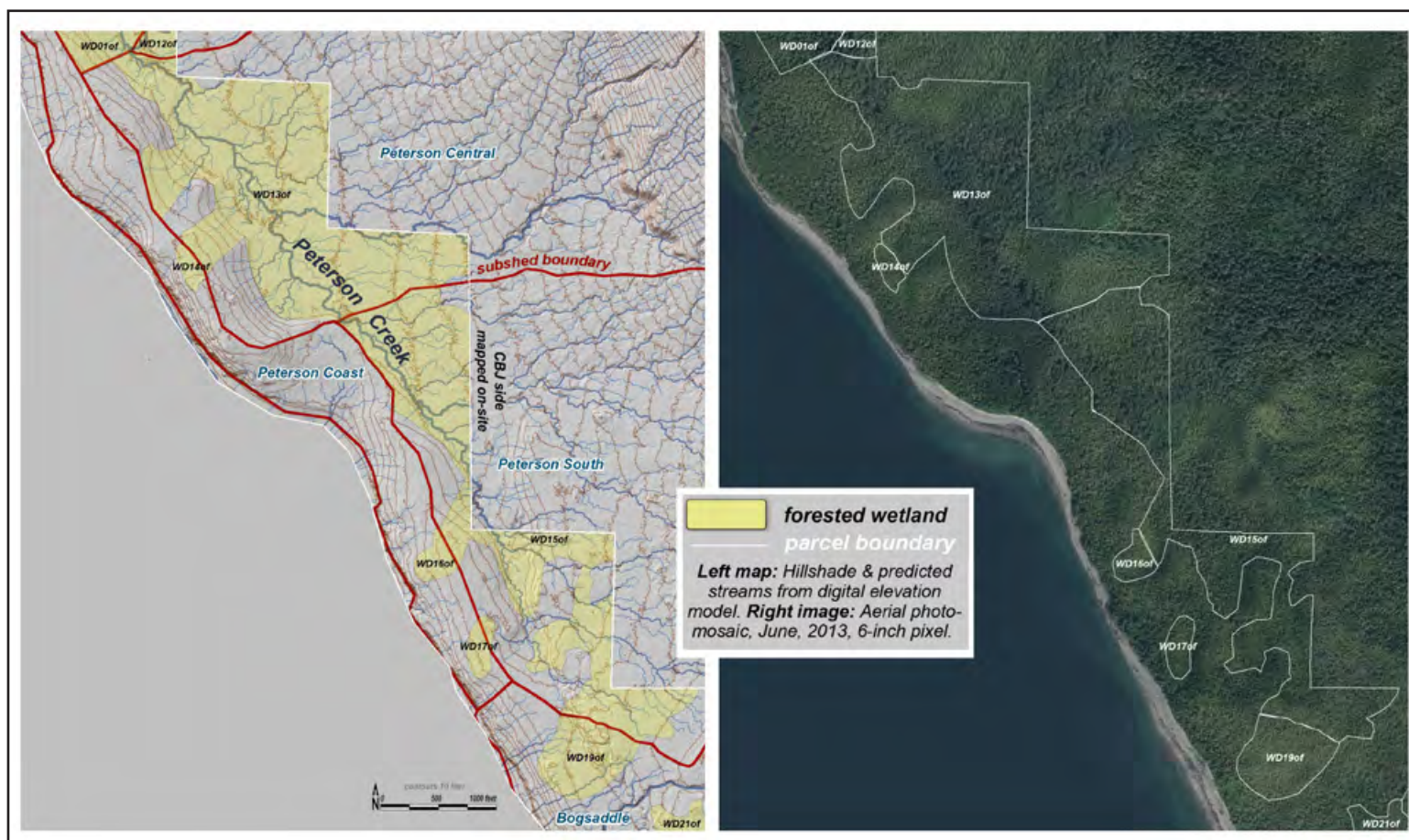
WD08of • **type:** open peatland • **acres:** 1.61 • **boundary criteria:** type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD09of • **type:** open peatland • **acres:** 1.81 • **boundary criteria:** type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD10of • **type:** for. peatl. • **acres:** 6.12 • **boundary criteria:** w-u, type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD11of • **type:** uplift meadow • **acres:** 3.1 • **boundary criteria:** type • **pin:** 3D1401000020 • known or probable anadromous fish

WD12of • **type:** forested peatland • **acres:** 2.79 • **boundary criteria:** w-u, par • **pin:** 3D1401000020 • known or probable anadromous fish



WD13of • **type:** for. peatl. • **acres:** 78.71 • **boundary criteria:** w-u, par,* subsh • **pin:** 3D1401000020 • known or probable anadromous fish

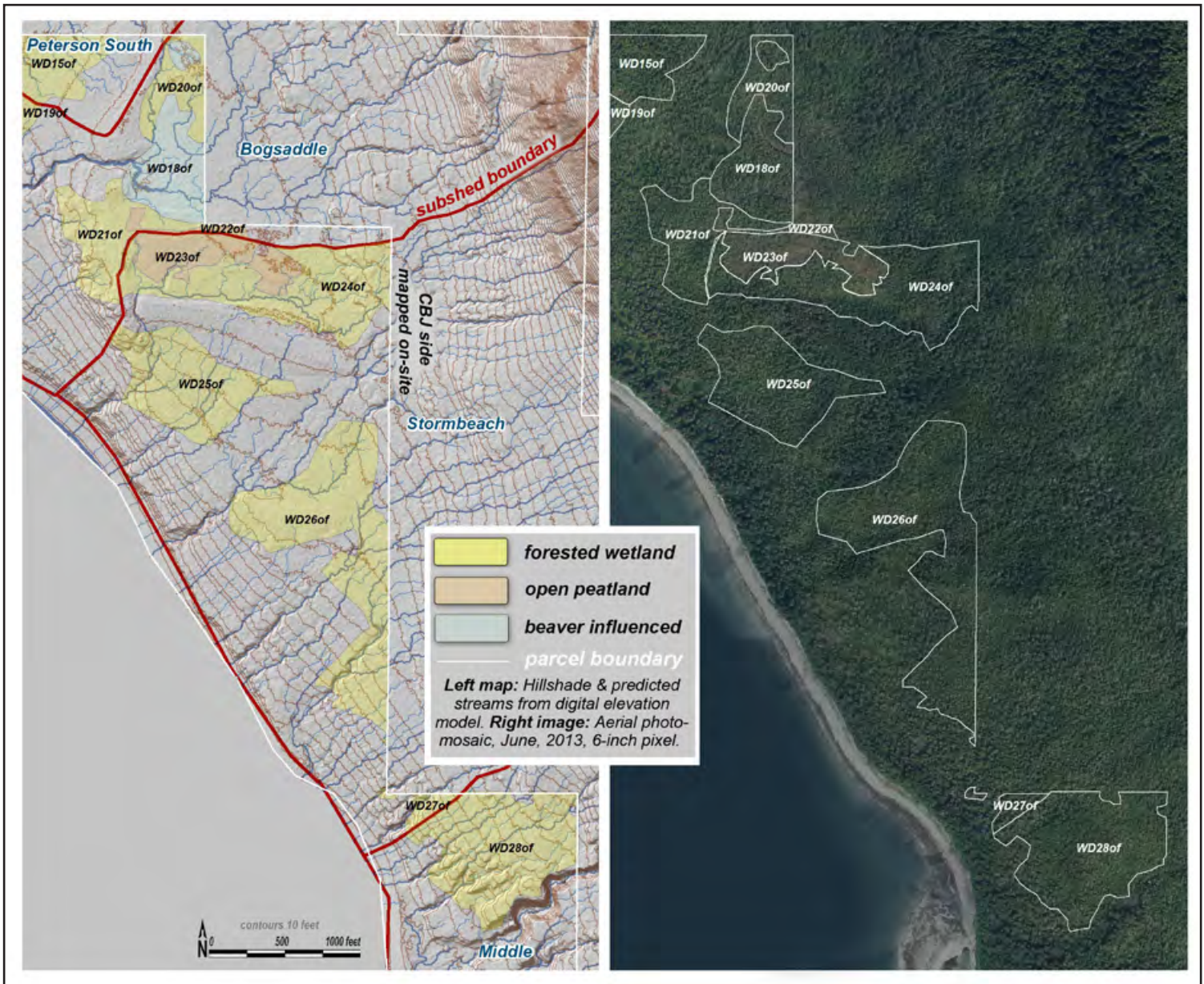
WD14of • **type:** for. peatl. • **acres:** 1.49 • **boundary criteria:** w-u, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD15of • **type:** for. peatl. • **acres:** 55.63 • **boundary criteria:** w-u, par, subsh • **pin:** 3D1401000020 • known or probable anadromous fish

WD16of • **type:** for. peatl. • **acres:** 2.54 • **boundary criteria:** w-u, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD17of • **type:** for. peatl. • **acres:** 2.44 • **boundary criteria:** w-u • **pin:** 3D1401000020 • no known or probable anadromous fish

WD19of • **type:** for. peatl. • **acres:** 10.43 • **boundary criteria:** w-u, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish



WD18of • type: beaver influenced • acres: 8.09 • boundary criteria: w-u, type, par • pin: 3D1401000020 • known or probable anadromous fish

WD20of • type: for. peatl. • acres: 4.2 • boundary criteria: w-u, type, par • pin: 3D1401000020 • no known or probable anadromous fish

WD21of • type: for. peatl. • acres: 7.42 • boundary criteria: w-u, type, subsh • pin: 3D1401000020 • no known or probable anadromous fish

WD22of • type: open peatl. • acres: 1.09 • boundary criteria: w-u, type, subsh • pin: 3D1401000020 • no known or probable anadromous fish

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WD23of • type: open peatl. • **acres:** 6.26 • **boundary criteria:** w-u, type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

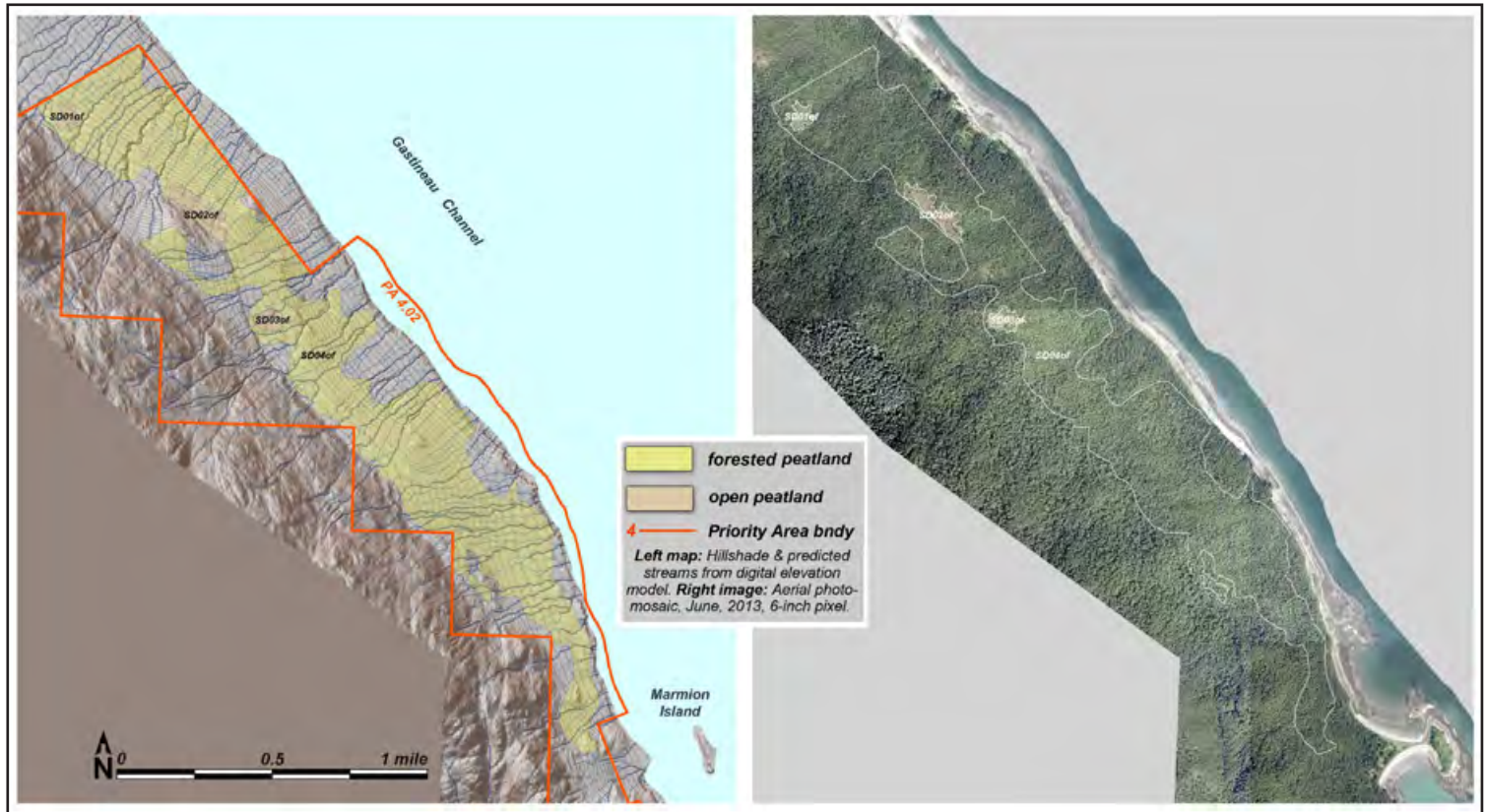
WD24of • type: for. peatl. • **acres:** 15.44 • **boundary criteria:** w-u, type, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD25of • type: for. peatl. • **acres:** 12.37 • **boundary criteria:** w-u, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD26of • type: for. peatl. • **acres:** 22.53 • **boundary criteria:** w-u • **pin:** 3D1401000020 • no known or probable anadromous fish

WD27of • type: for. peatl. • **acres:** 1.29 • **boundary criteria:** w-u, par, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish

WD28of • type: for. peatl. • **acres:** 16.62 • **boundary criteria:** w-u, par, subsh • **pin:** 3D1401000020 • no known or probable anadromous fish



SD01of • **type:** open peatl. • **acres:** 1.56 • **boundary criteria:** type • **pin:** 3D0101000030 • no known or probable anadromous fish

SD02of • **type:** open peatl. • **acres:** 4.52 • **boundary criteria:** type • **pin:** 3D0101000030 • no known or probable anadromous fish

SD03of • **type:** open peatl. • **acres:** 2.19 • **boundary criteria:** type • **pin:** 3D0101000030 • no known or probable anadromous fish

SD04of • **type:** for. peatl. • **acres:** 243.21 • **boundary criteria:** w-u, type, pa • **pin:** 3D0101000030 • no known or probable anadromous fish