

MORE INDEPTH DISCUSSION ABOUT ASPECTS OF THE ADJUDICATION PROCESS



HAMMER THIS IN!

THE 'NEED'



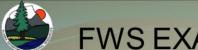
Example from ADF&G applications:

"The primary purpose of this proposed reservation is to protect fish habitat, migration, and propagation within XXXX Creek and its watershed. This reach of XXXX Creek has been specified as important to anadromous fish under Alaska state statue AS 16.05.871, as AWC stream number XXX-XX-XXXXX-XXXX by the Alaska Department of Fish and Game. Chinook salmon (Oncorhynchus tshawytscha), coho salmon (O. kisutch), chum salmon (O. keta), rainbow trout (O. mykiss), and Dolly Varden (Salvelinus malma) utilize these reaches of the XXXX Creek for a portion of, or all of their spawning, incubation, rearing, and passage life phases. These species contribute to sport and commercial fisheries in the area and provide recreational opportunities' and values as well."

LOTS OF WORDING BUT LOOK AT THE UNDERLINED.....DESCRIBE IN DETAILS THE NEED

Sufficient flows are needed to <u>support seasonal uses of riverine habitats by fishes</u> and to provide for fluvial processes that maintain these habitats. To maintain seasonal uses of habitats by each life history stage, we recommend maintaining a flow regime that mimics the magnitude and timing of the natural flow regime as discussed above. This approach is <u>necessary to meet the needs of species' life history stages</u> that have coevolved and exhibit biological adaptations to the river's flow regime.

HERE IT IS AGAIN....MORE SUPPORTING INFO FOR THE NEED



FWS EXAMPLE FOR 'NEED':

On August 14, 1941, President Franklin D. Roosevelt established Kodiak National Wildlife Refuge (NWR) by Executive Order 8857, and on December 2, 1980, President Carter signed into law the Alaska National Interest Lands Conservation Act (ANILCA). Section 393 (5)(B) of ANILCA declared the following purposes for which Kodiak NWR is established and shall be managed:

- "(i) to conserve fish and wildlife populations and habitats in their natural diversity including, but not limited to, Kodiak brown bears, salmonids, sea otters, sea lions, and other marine mammals and migratory birds;
- (ii) to fulfill the international treaty obligations of the United States with respect to fish and wildlife and their habitats;
- (iii) to provide in a manner consistent with purposes set forth in subparagraphs (i) and (ii), the opportunity for continued subsistence uses by local residents; and
- (iv) to ensure, to the maximum extent practicable and in a manner consistent with the purposes set forth in subparagraph (i), water quality and necessary water quantity within the refuge."

Additionally, the water reservation is needed to comply with the legal and management directives (as described previously). The Uganik River is within the external boundary of the Kodiak NWR, where the conservation of aquatic habitat and associated biota through the maintenance of water quantity is mandated by law.

In the judgment of USFWS, the proposed reservation is <u>necessary to maintain the habitat that supports a rich</u> and abundant biota within the Uganik River and <u>will aid USFWS in carrying out its management objective to</u> maintain the natural water quantity and quality at stream flows and water levels that will provide suitable habitat for brown bears, fish, migratory waterbirds, raptors, and other wildlife.

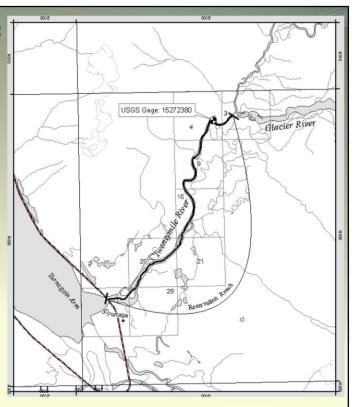
HIGHLIGHTED THE SPECIFICS AND UNDERLINED ADDITIONAL SUPPORT FOR NEED

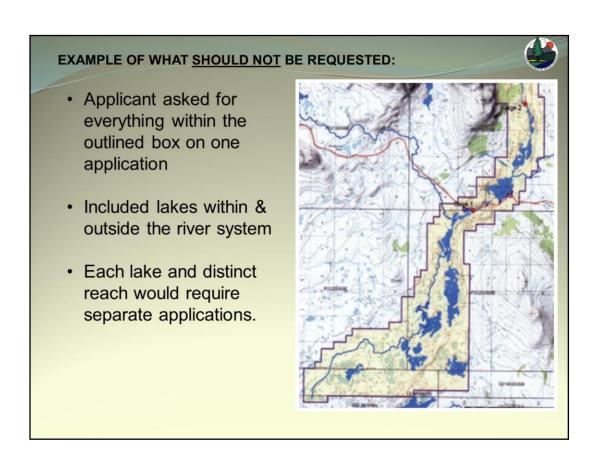
REACH EXAMPLES:

Example of an acceptable reach request:

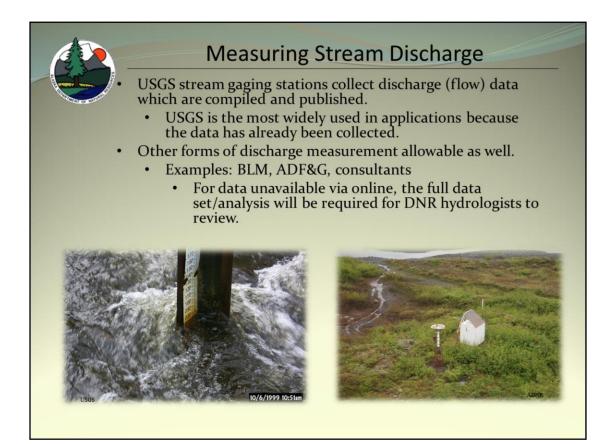
- Hydrologically distinct
- Gage is located above any contributing tributaries
- Does not include any lakes between the start and end point of a reach







EACH ARE HYDROLOGICALLY DISTICT



IF ITS UNAVAILABLE FOR US TO READILY ACCESS, WE NEED THE DATA!



Measuring Water Level

Example:

- X Lake is 10.2 miles long, has a surface elevation of approximately 75 feet above mean sea level, and surface area of approximately 1, 305 hectares.
- The lake is steep sided with a max depth of 752 feet
- Requested quantities are lake elevations relative to a reference mark
- A galvanized expansion bolt, secured into bedrock at the gage site serves as the primary reference mark that lake elevations are measured relative to.
- The reference mark is assigned an arbitrary elevation of 10 ft.
 - The difference between the reference mark and the vertical distance to the water surface is the lake elevation measured by the gage.

mps/www.geocacing.commandetais.aspx.) rib—qb rood

WE HAVEN'T ESSENTIALLY DONE A LAKE BEFORE SO THIS IS AN AREA WE WILL HAVE TO NAVIGATE THROUGH......

JUST AN EXAMPLE OF WHAT IS NEED FOR A LAKE RESERVATION



Examples of Acceptable Time Periods

- Time periods can be set at seasonal, monthly, or broken out periods.
- Time periods are not generally acceptable in less than 7 day increments for water management purposes.
- Time periods should follow the hydrograph.

| Time Periods | Time Periods |
|--------------|---------------|
| January | January 1-15 |
| February | January 16-31 |
| March | |
| April | February |
| May | March |
| June | April |
| July | May 1-15 |
| August | May 16-31 |
| September | |
| October | June 1-15 |
| November | June 16-30 |
| December | July etc |



Flow Requests

 Applicants can request what they deem is required flow for the purpose checked.



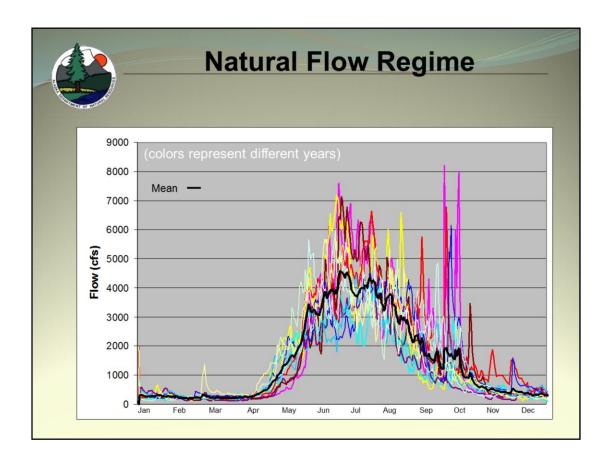
- The flows must be justified and backed up within the application.
- Requests are also dependent on prior appropriations, available amounts of <u>unappropriated</u> flows regardless of prior appropriators, and potential future uses.
- Flows may be adjusted down but will never be adjusted up.

| Time Period | Requested Flow (cfs) |
|-------------|----------------------|
| Jan | 6 |
| Feb | 5 |
| Mar | 5 |
| Apr | 7 |
| May | 20 |
| Jun | 78 |
| Jul | 54 |
| Aug | 44 |
| Sep | 34 |
| Oct | 24 |
| Nov | 12 |
| Dec | 7 |

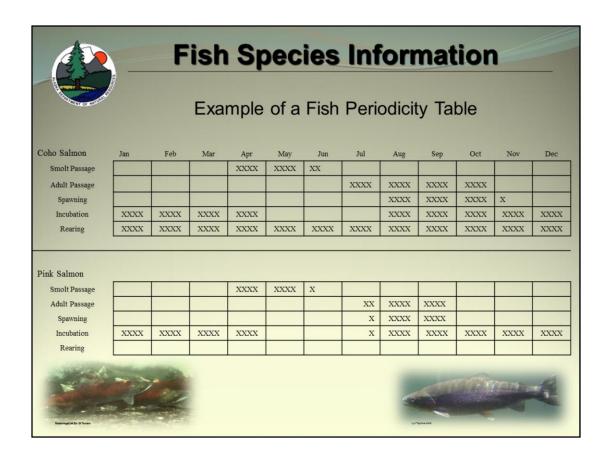
- REQUEST WHAT YOU BELIEVE IS REQUIRED
- FLOWS MUST BE JUSTIFIED
- PRIOR APPROPRIATORS? UNAAPPROPRIATED FLOWS? FUTURE USES?
- FLOWS CAN GO DOWN,....NOT UP!

Aka: Physical, biological, water chemistry, and socioeconomic aspects/data substantiating the need for and the quantity of water requested for the proposed reservation

- SHOW YOUR WORK! JUST LIKE IN SCHOOL
- PART OF THE RECORD......JUSTIFY TO DNR, THE PUBLIC, THE COURTS



ANOTHER EXAMPLE OF JUSTIFYING YOUR NEEDS, AND REQUESTS



SAW THIS PREVIOUSLY.....WE SPOKE ABOUT IT EARLIER WITH THE UGANIK

WE WANT TO SEE

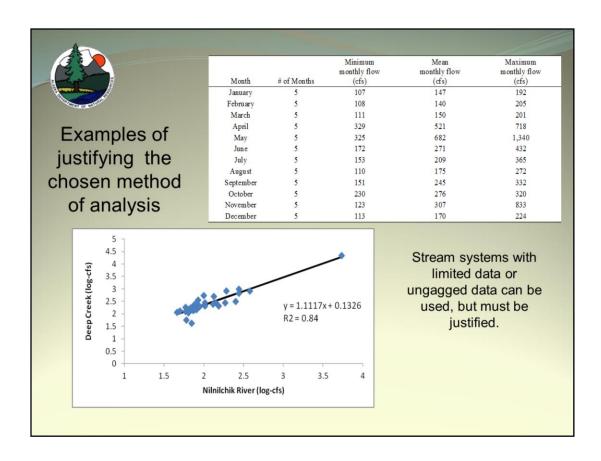
PASSAGE
SPAWNING
INCUBATION
REARING
ANY OTHER PERTANENT STAGES THAT I'M MISSING

Methodology:



Many scientific method may be use and will be reviewed by DNR hydrologists for validity. It is up to the applicant to provide the necessary information. Some questions to ponder:

- · What data is already out there?
- If you only have a few years of data collected, what is your plan for future data collection?
- How did you analyze the data?
- What method did you use?
- Did you go into a discussion about your method used?



SOME EXAMPLES OF METHODS:

DURATION ANALYSIS

TENNANT METHOD – GETTING AWAY FROM THIS

SIMPLE LINEAR REGRESSION

UNIT AREA RUN OFF

MASS BALANCE

AREAS NOT USUALLY DONE/HASN'T BEEN DONE FOR IFRS
PHABSIM
STREAM STATS – STILL IN BETA VERSION & DNR DISCUSSIONS
ANY OTHER EXTENSIVE MODELING FORM



Review: Water Allocations and Flow Discussions

- Requested flows are reviewed
- Prior appropriators are reviewed
- Discharge data reviewed
- Notice is issued based on requested flows
- · Flow discussions begin
- · Flows are finalized

Example of Time Period Requests

| Time Period | Flow Request (cfs) |
|-------------|--------------------|
| January | 13,000 |
| February | 11,000 |
| March | 10,712 |
| April | 10,712 |
| May | 11,000 |
| June | 13,500 |
| July | 17,900 |
| August | 17,900 |
| September | 17,900 |
| October | 17,900 |
| November | 17,900 |
| December | 15,000 |
| December | 15,000 |

Agency & Public Notice

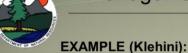
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Notice goes to:

- 1. Newspapers
- 2. Alaska Online Public Notice System
- 3. Certified mail to prior appropriators of the same source
- 4. Those formally requesting notice
- 5. Land owners
- 6. Local Governments
- Post Offices

Within 15 days of publication/service of notice, any person may file written comments with ADNR (AS 46.15.133 (a))

Management Plans/Research Conducted



- Northern Southeast Area Plan (ADNR)
- Chilkat Bald Eagle Preserve Management Plan
- Hydrologic Reconnaissance of the Chilkat River Basin, SE Alaska
- Haines State Forest Management Plan (ADOF)
- Haines Borough Comprehensive Plan
- "Special Use" designation?
- "Management Area" designation?



WHILE OUT TO NOTICE.....WE RESEARCH



Certificate Criteria

AS 46.15.145 (c)

The commissioner shall issue a certificate reserving the water applied for under this section if the commissioner finds that:

- The rights of prior appropriators will not be affected by the reservation;
- 2. The applicant has demonstrated that a need exists for the reservation;
- 3. There is unappropriated water in the stream or body of water sufficient for the reservation; and
- 4. The proposed reservation is in the **public interest**.
- 1. WE'VE ACCOUNTED FOR PRIORS
- 2. WE'VE DEMONSTRATED THE NEED
- 3. THERE IS UNAPPROPRIATED WATERS
- 4. PUBLIC INTEREST CRITERIA ARE MET

IF YOU CAN ANSWER ALL THESE QUESTIONS THOROUGHLY.....CERTIFICATE!



Public Interest Criteria AS 46.15.080 (b)

<u>In determining the public interest,</u> <u>DNR considers*:</u>



- 1. Benefit to the applicant
- 2. Effects to existing/future economic activity
- 3. Effect on fish & game resources/public recreational opportunities
- 4. Effect on public health (water quality)
- 5. Effect of loss of alternate water uses that might be made within a reasonable time if not precluded or hindered by the proposed appropriation.
- 6. Harm to other persons
- 7. Intent/ability of the applicant to complete the appropriation.
- 8. Effect upon access to navigable or public waters.

YOU WILL KNOW THESE BY HEART FOR A TEST LATER!

^{*} These are the minimum 8 statutory criteria which must be considered. Other criteria, as appropriate, may be included.

Final Steps

CERTIFICATE

- Findings of Fact, Conclusions of Law, & Decision is written and signed
- Appeal time 20 days
- · No appeal:
 - Certificate signed after the 31st day
 - Priority date: legally defensible
 - Applicant now holds the rights to the flows or levels reserved under the certificate.
 - · Recording

10-Year Review

A review determines:

- The purpose/need still applies?
- Effects of the reservation to prior appropriators/public interest?
- Has a new beneficial use been proposed?
- Is new info available about the reservation?
- Is quantity/level of water reserved adequate?
- Do time periods still apply?
- Are additional research/data/analysis needed?

ARE THERE STILL FISH THERE?

IS THE PRIOR APPROPRIATOR STILL ABLE TO GET THEIR WATER? IS THE PUBLIC INTEREST STILL FOR THIS PURPOSE?

HAS SOMEONE COME IN AND DECLAIRED A HYDROPOWER PROJECT IS MORE PERTINENT?

NEW INFO THAT MIGHT CHANGE THE RESERVATION?

ARE THE FLOWS STILL GOOD?

TIME PERIODS? MAYBE CLIMATE CHANGE HAS SHIFTED THE FLOWS IN DIFFERENT TIME PERIODS?

.



For Further Information

Kimberly Sager Statewide Water Reservation Specialist

Department of Natural Resources Water Resources Section 550 W. 7th Avenue, Suite 1020 Anchorage, Alaska 99501

> (907) 269-2033 kimberly.sager@alaska.gov

IN CASE YOU STILL DON'T KNOW WHO I AM, OR WHERE I WORK.....HERE YOU GO AGAIN!

QUESTIONS?