



# Greens Creek Mine Annual Meeting June 7, 2011



# Agenda

- Overview
- Tailings Annual Report Summary
- Tailings FWMP Report Summary
- Site 23 Annual Report Summary
- 920 FWMP Annual Report Summary
- Biomonitoring Report Summary
- Wednesday Tour Details



## Overview

- Problems and important events
- Production statistics
- Exploration activities
- Inspections
- Spills and releases
- Disturbances and water usage
- Construction activities
- Reclamation activities
- 2011 planned projects, including the EIS
- NPDES/APDES overview





## 2010 Production Statistics

- 2206 tons/day mined
- 2193 tons/day milled
- 15 shipments of cons
  - 204,000 tons





## Exploration Statistics

- 2010 Activities
  - Drilled 13 holes (21,798 feet)
  - Three pads were distal from the mine (East Ridge area) and five pads were in the immediate mine area (Killer Creek, Cub Creek, and West High Sore area)
  - Continued same environmental controls as developed in the 2004-2005 drill seasons
- 2011 Plans
  - 21 holes at 9 sites (36,400 feet)



# Inspections

- USFS: 16
- ADEC: 3



## 2010 Spills

- No nationally reportable spills
- Four reportable within 48 hours to ADEC-SPAR
  - >10 but <55 gallons to land (3)
  - >55 gallons to containment (1)
- All hydraulic oil
- Blown hoses



## Disturbances and Water Usage

- East Ridge area – 14 acres (6 acres tailings placement)
- Sand Pit - 1.48 acres
- Up to 700 gpm Greens Creek withdrawal (creek flow dependent) for mine and mill use
- Variable Cannery Creek withdrawal for truck wash, camp and port uses



## 2010 Construction and Other Activities

- Cleaned sediment from the lined degrit basins that were installed in 2009
- Replaced the geomembrane at the inlet area to Pond 7 with concrete to create a permanent inlet channel
- Expanded the 1.4 mile A Road sand pit in support of the planned East Ridge tailings expansion
- Performed geotechnical investigation in the East Ridge area to support foundation design work
- Resurfacing 920 (phase 1), diversion to Bruin Creek, field surveys in proposed tailings expansion area, EIS



## 2011 Planned Activities

- East Ridge development
- Geotechnical drilling program
- Resurfacing 920 area (phase 2)
- 920 dry expansion
- 3 mile bridge
- Collection system for storm water flows at Hawk Inlet
- Field surveys



## Reclamation Activities

- 2010 completed production rock removal
  - Site E: 40,000 cubic yards
  - 1350: 9,000 cubic yards
- 2011 planned production rock removal
  - Site E
  - Site 1350
- Closure projects



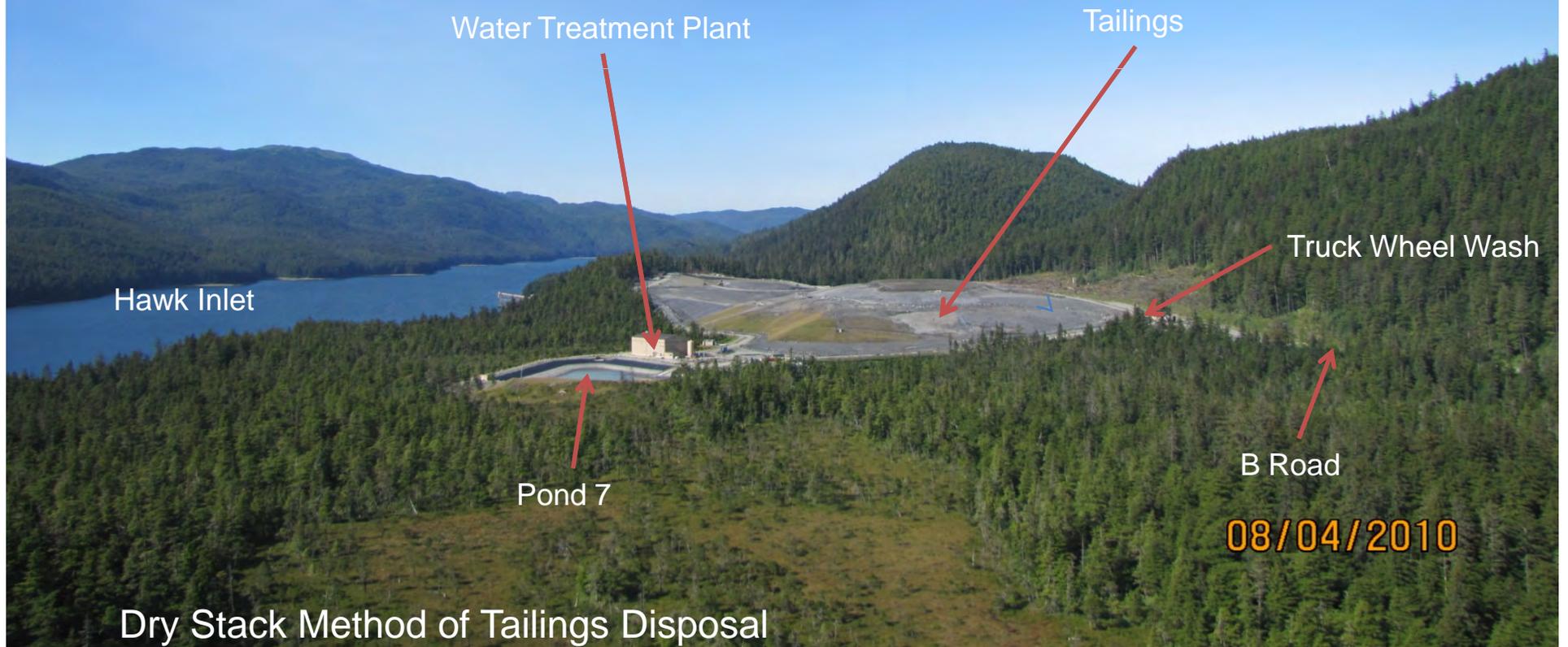
**Site E Waste Rock Removal Activities – July 8, 2010**

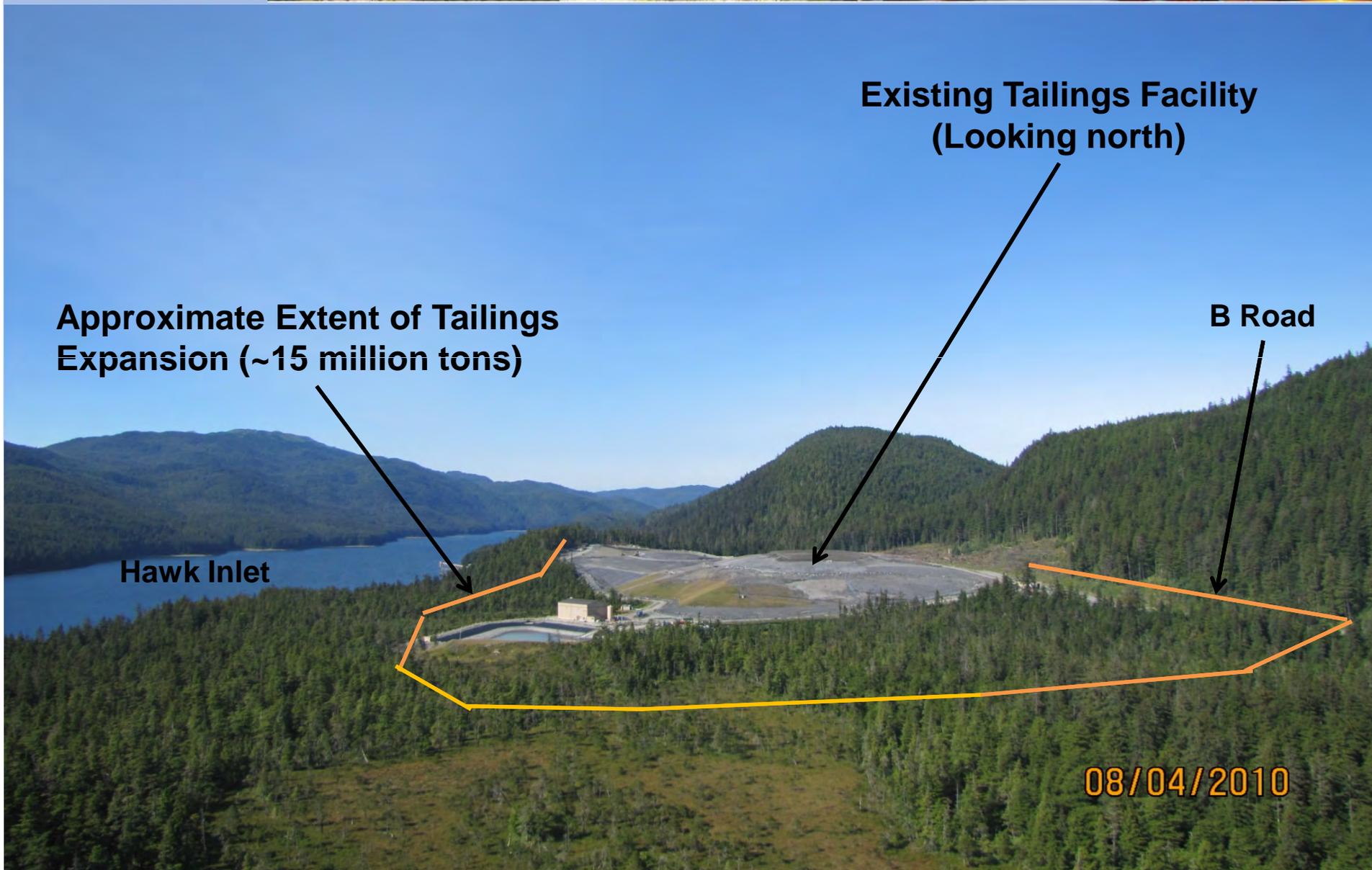


**Proposed Tailings Facility Expansion EIS**



Existing Tailings Facility  
(looking north)





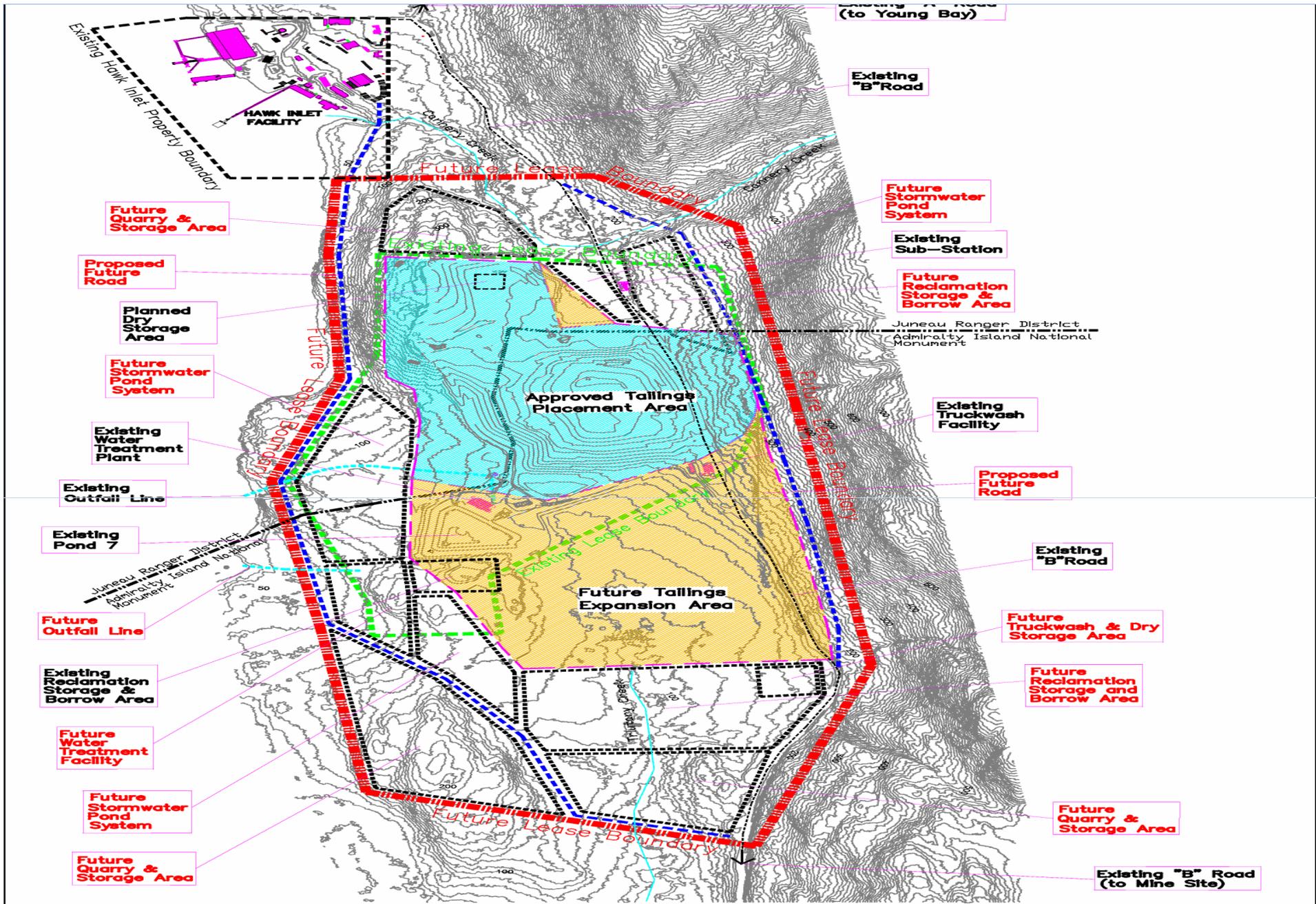
**Existing Tailings Facility  
(Looking north)**

**Approximate Extent of Tailings  
Expansion (~15 million tons)**

**Hawk Inlet**

**B Road**

**08/04/2010**



(to Young Bay)

Existing "B" Road

Future Quarry & Storage Area

Future Stormwater Pond System

Proposed Future Road

Existing Sub-Station

Planned Dry Storage Area

Future Reclamation Storage & Borrow Area

Future Stormwater Pond System

Juneau Ranger District  
Admiralty Island National Monument

Existing Water Treatment Plant

Existing Truckwash Facility

Existing Outfall Line

Proposed Future Road

Existing Pond 7

Existing "B" Road

Juneau Ranger District  
Admiralty Island National Monument

Future Outfall Line

Future Truckwash & Dry Storage Area

Existing Reclamation Storage & Borrow Area

Future Reclamation Storage and Borrow Area

Future Water Treatment Facility

Future Quarry & Storage Area

Future Stormwater Pond System

Future Quarry & Storage Area

Existing "B" Road (to Mine Site)

**LEGEND**

- FUTURE LEASE BOUNDARY
- EXISTING LEASE BOUNDARY
- PROPOSED FUTURE ROAD SYSTEM
- BOUNDARY BETWEEN JUNEAU RANGER DISTRICT & ADMIRALTY ISLAND

- APPROVED TAILINGS PLACEMENT AREA
- FUTURE TAILINGS

**STAGE 3 TAILINGS EXPANSION  
PRELIMINARY CONCEPT**

**DRAFT - APRIL 28, 2010**



GREENS CREEK MINING COMPANY



## And Continued Operations Means “More of the Same”

- **Same** Tailings Site Preparation and Liner System
- **Same** Tailings Disposal Techniques
- **Same** Environmental Management Procedures
- **Same** Proposed Reclamation Measures
- Utilization of **Same** Existing Infrastructure



## NEPA Process

- Environmental Impact Statement – EIS
  - Analyze alternatives to and effects of the proposed project
  - Analyze impacts to resources
    - aesthetics and visual, climate and air quality, cultural/heritage, geology and geochemistry, water quality/hydrology, fisheries and wildlife including subsistence, land use and noise, socioeconomics, soils, and vegetation including wetlands
  - Solicit input from the public
  - Coordinate with cooperating agencies



# NEPA Schedule

- Retain 3<sup>rd</sup> Party Consultant *August 2010*
- Publish NOI in Federal Register *September 2010*
- Hold Scoping Meetings in Juneau and Angoon *October 2010*
- Finish Scoping - Identify Issues and Alternatives *Nov – Dec 2010*
- Release Draft EIS *Winter 2011*
- Receive and Analyze Comments in Draft EIS *Winter – Spring 2012*
- Release Final EIS and Record of Decision *Summer 2012*
- Implement Decision (after 45 days assuming no administrative appeals) *Summer - Fall 2012*



## NPDES/APDES Overview

- ADEC primacy November 1, 2010
- Draft Greens Creek permit public comment
  - Began April 1<sup>st</sup>
  - 7 comment letters received
- State response to comments

