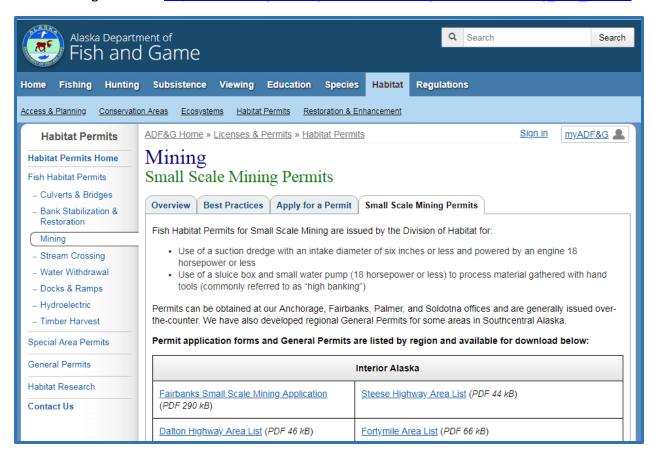
## OVERVIEW: Small scale mining permits on Interior Alaska streams.

Small Scale Mining Permits are issued by Alaska Department of Fish and Game's (ADFG) Habitat Division from its Fairbanks office. ADFG publishes lists of streams approved for these over-the-counter permits on its website, however, the stream location information formats are difficult to visualize (Meridian, Township, Range and Section or mile markers). This factsheet describes the methods used to convert the ADFG lists of small scale mining streams into geospatial data. These data can then be represented on maps and compared to other digital datasets in a geographic information system (GIS).

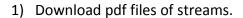
ADFG Mining Website: https://www.adfg.alaska.gov/index.cfm?adfg=uselicense.mining ssm permits



#### Extract from list of Steese Highway Area Streams:

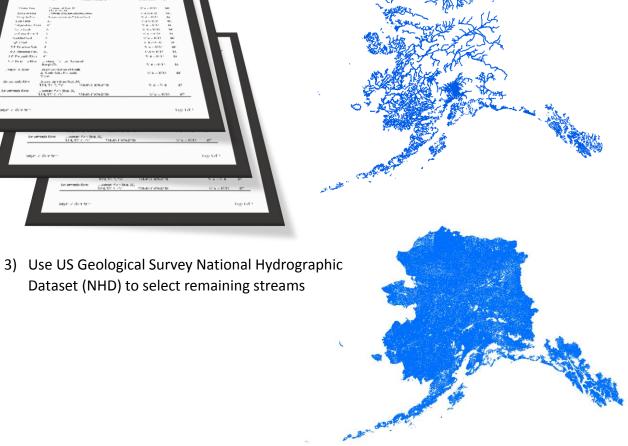
Stream Name	Location	Anadromous Waters Catalog Number	Dates Permitted	Type <sup>#</sup>
Chatanika River	Downstream of Faith Creek	334-40-11000-2490-3151-4020	5/16 to 7/10	871
Chatanika River	Upstream of MP 69	334-40-11000-2490-3151-4020	5/16 to 10/15	871
Poker Creek	Sections 25 & 36, T4N, R1E, FM	334-40-11000-2490-3151-4020-5165	5/16 to 10/15	871
Poker Creek	Remainder (not listed above)		5/16 to 10/15	841

### Methods

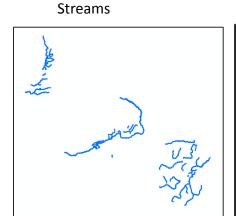


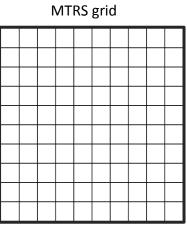


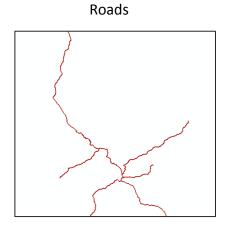
2) Use ADF&G's Anadromous Waters Catalog to select streams by AWC code



4) Intersect streams with Meridian, Township, Range, and Section grid and Alaska Department of Transportation and Public Facilities roads dataset to delineate stream locations described on ADFG lists.





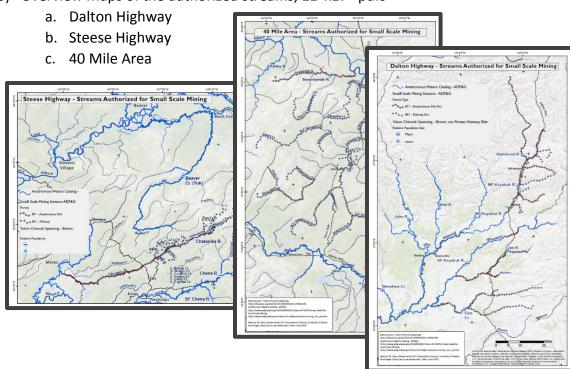


#### **RESULTS**

- 1) GIS dataset of 104 stream segments covering the 40 Mile River area along with the Dalton and Steese Highway area streams listed for small scale mining
  - a. Dataset includes attributes from ADF&G list including
    - i. Stream name
    - ii. Location description (MTRS, road mile post, etc.)
    - iii. Anadromous Waters Catalog stream code (if applicable)
    - iv. Permit type (Anadromous stream or
    - v. Permit dates
  - b. Dataset includes GIS calculated length in kilometers
- 2) Summary table of authorized streams for small scale mining

	Permit Type		
Area	871 - Anadromous Fish Act	841 - Fishway Act	Total Kilometers
Dalton Highway	331.75	298.37	630.12
Steese Highway	726.26	301.74	1028.00
Fortymile	131.68	1224.55	1356.23
Total (kilometers)	1189.69	1824.67	3014.35

3) Overview Maps of the authorized streams, 11"x17" pdfs



# CONTACT

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Project website: <a href="https://accscatalog.uaa.alaska.edu/dataset/historic-mining-footprint">https://accscatalog.uaa.alaska.edu/dataset/historic-mining-footprint</a>