



State of Alaska
Department of Fish and Game
Division of Sport Fish

Nomination Form
Anadromous Waters Catalog

4

Region Southwest USGS Quad(s) Kodiak A-4
 Anadromous Waters Catalog Number of Waterway 258-52-10018
 Name of Waterway Unnamed Stream USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # <u>120248</u>	<u>Will Frost</u> Fisheries Scientist Date <u>9/4/12</u>
Revision Year: <u>2013</u>	<u>Will Frost</u> Habitat Operations Manager Date <u>9/4/12</u>
Revision to: Atlas _____ Catalog _____ Both <u>X</u>	<u>Will Frost</u> AWC Project Biologist Date <u>7/26/12</u>
Revision Code: <u>A-2</u>	<u>Will Frost</u> Cartographer Date <u>9/10/12</u>

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon (7)	5/5/2012		X		<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments:
 I used an electrofisher to sample an unnamed stream that flows into Midway Bay in Old Harbor. See the May 5-7, 2012 Old Harbor Airport Project trip report.
 ref num # 12-251

Name of Observer (please print): Will Frost, Habitat Biologist
 Signature: [Signature] Date: 5/16/2012
 Agency: ADF&G, Division of Habitat
 Address: 333 Raspberry Road
Anchorage, AK 99518

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Anadromous Waters Catalog.
 Signature of Area Biologist: _____ Date: _____ Revision 05/08
 Name of Area Biologist (please print): _____

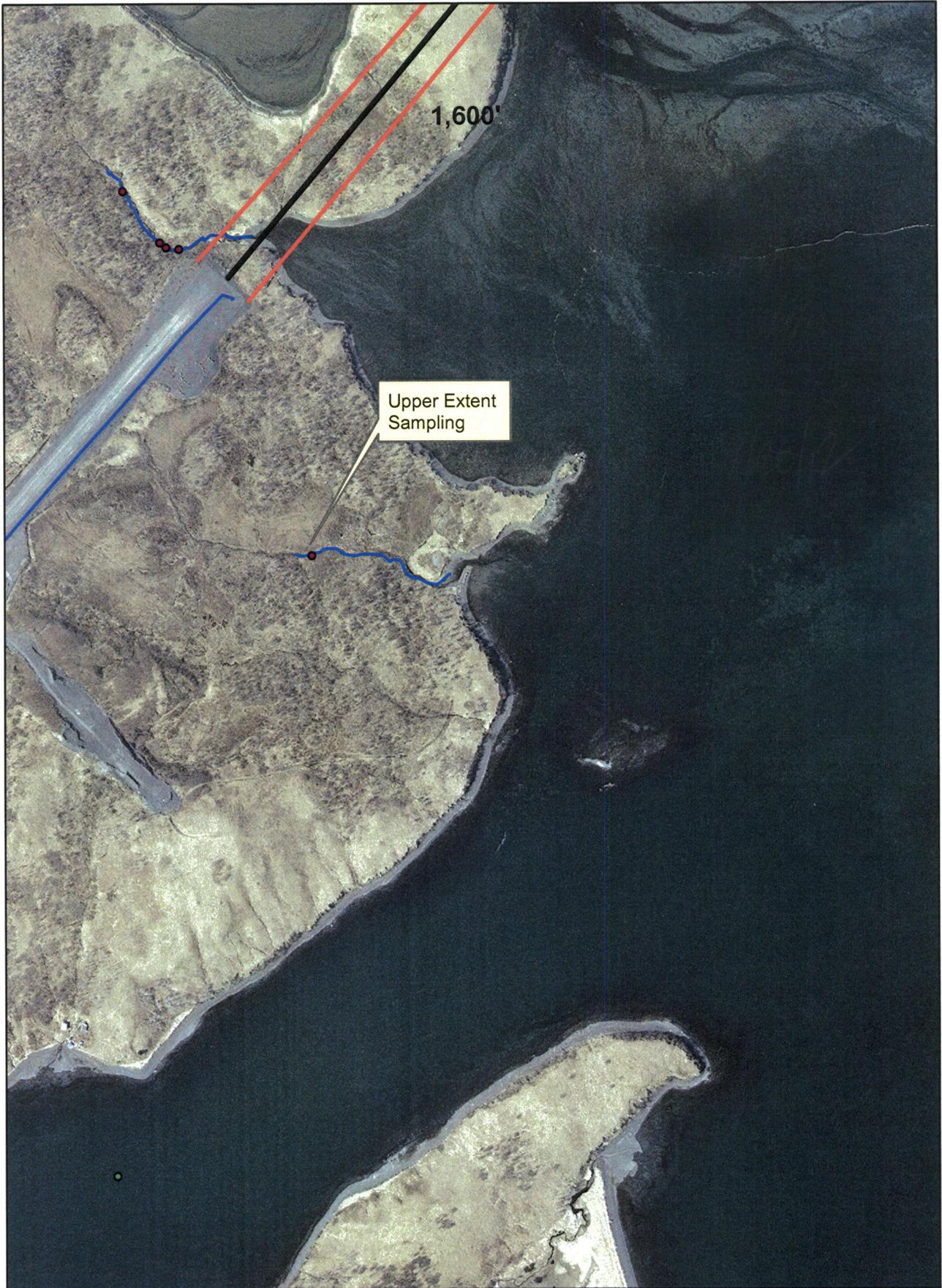


Figure 1.



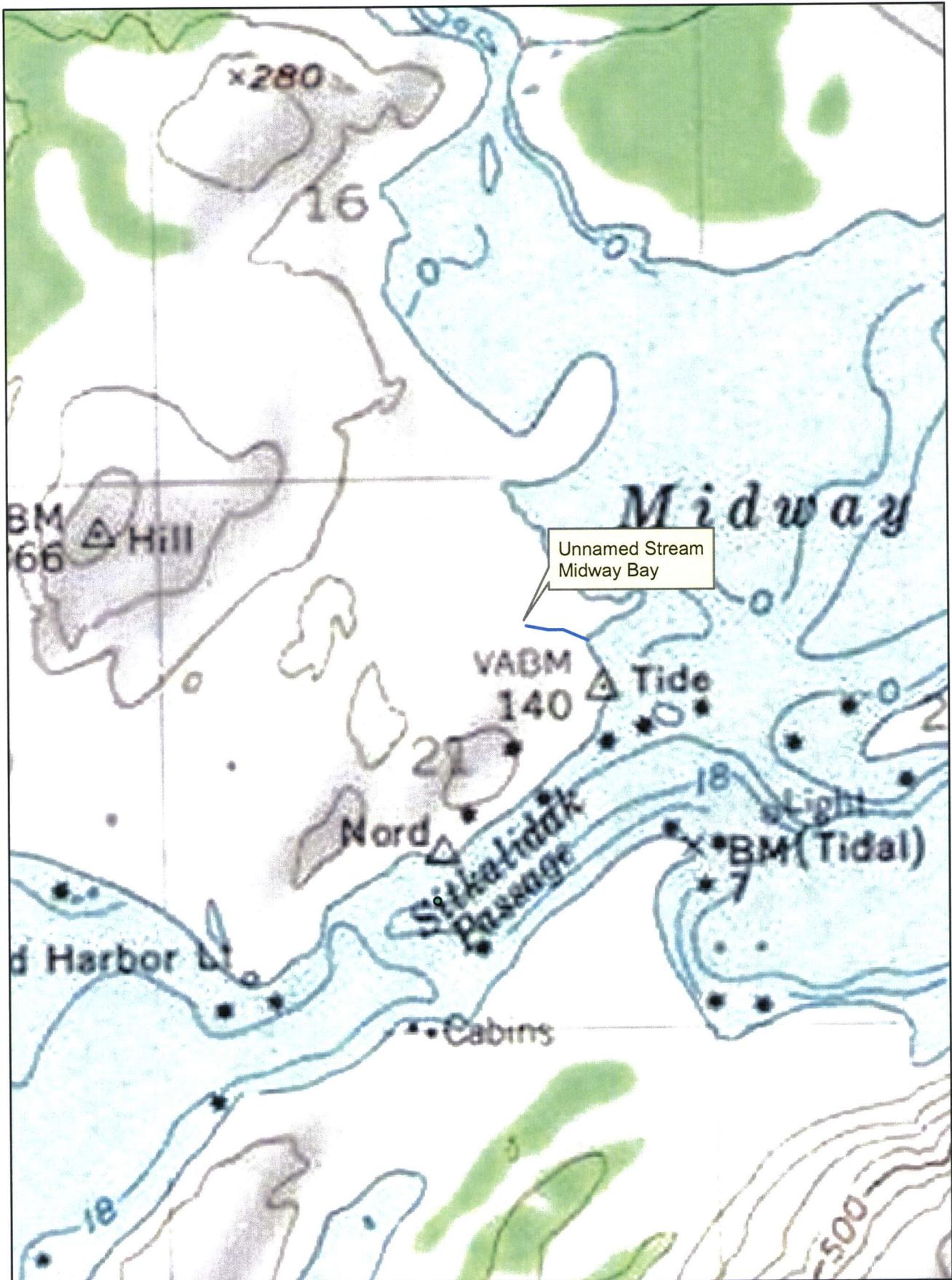


Figure 2.

0 455 910 1,820 2,730 3,640 Feet

ADF&G

STATE OF ALASKA

SEAN PARNELL, Governor

DEPARTMENT OF FISH AND GAME

DIVISION OF HABITAT

333 RASPBERRY RD.
ANCHORAGE, ALASKA 99518
PHONE: (907) 267-2342
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MEMORANDUM

TO: Michael Daigneault
Anchorage Area
Regional Supervisor

FROM: Will Frost *WF*
Habitat Biologist

DATE: May 16, 2012

SUBJECT: Trip Report, May 2012 Old Harbor Airport Project

On May 5-7, 2012, I joined Brian Lance, National Marine Fisheries Service, and Richard Wiebe and Andy Dickerson, Shearwater Systems (Shearwater) in Old Harbor to sample for the presence of fish in streams which may be impacted by the proposed Old Harbor Airport runway extension project.

The city of Old Harbor is proposing to extend the single north/south runway about 2,000 linear feet. The purpose of the extension is to allow a DC-6 aircraft to transport fish out of Old Harbor from a proposed fish processing plant. An Environmental Assessment is being written by the U.S. Army Corps of Engineers. The stream channel geomorphology was visually estimated based on the Dave Rosgen stream classification system.

We began sampling with a backpack electrofisher in an unnamed stream ("Sculpin Creek") located on the north side of the runway (Figure 1). Sculpin Creek flows into Midway Bay. We started at tidewater and worked upstream about 840 linear feet. We captured and released 5 juvenile coho salmon, 1 Dolly Varden, and over 50 sculpin. Sculpin Creek will be nominated to the Anadromous Waters Catalog. The stream's water temperature was 5 ° C.

The proposed north runway extension will fill about 400 linear feet of Sculpin Creek and a portion of the marine habitat at the channel outlet. Shearwater is proposing to relocate the lower end of Sculpin Creek by constructing a new channel through a low hill that will divert the stream into the Big Creek estuary (Stream No. 258-52-10010). The diversion will require blasting to create the new channel and closely replicate the existing channel features. The existing channel is about 3-feet wide and was estimated to be Rosgen type E3 (Figure 2).

We sampled an unnamed stream on the southeast edge of the runway (Stream No. 258-52-10012-2008) (Figure 1). We began by sampling above the upper extent of the specified waterbody and worked upstream. We sampled 330 linear feet of the stream. No fish were captured or observed. The stream flow in this location is intermittent. The stream's water temperature was 6 ° C.

Stream No. 258-52-10012-2008 will also be directly impacted by the south end runway extension. Shearwater is proposing to construct a new channel through a low hill southeast of the runway that will divert the new channel back into the existing channel south of the new runway extension. The stream will have to be relocated to the southeast of the new runway embankment. The diversion will require blasting

to create the new channel and closely replicate the existing channel features. The existing channel is about 5-feet wide and was estimated to be Rosgen type E2 (Figure 3).

We sampled an unnamed tributary to Stream No. 258-52-10012-2008 (Figure 1). We began where the stream flows into the specified waterbody and worked upstream about 1,700 linear feet. We captured 2 juvenile coho salmon and 11 juvenile Dolly Varden. The unnamed stream will be nominated to the Anadromous Waters Catalog. The stream's water temperature was 6 ° C.

The proposed runway extension will fill about 350 linear feet of the unnamed tributary to Stream No. 258-52-10012-2008 below the airport access road. Shearwater is proposing to relocate the lower end of the creek by constructing a new channel on the west side of the airport access road and divert the stream into "Stream #2" (Stream No. ~~258-52-10012~~). A survey will be conducted in 2012 to determine the feasibility of relocating the stream. The existing channel is about 4-feet wide and was estimated to be Rosgen type E3 (Figure 4).

At about 5:00 p.m., we set four baited minnow traps in an unnamed stream that flows into the Old Harbor Lagoon. We set two traps above an access road to the village water treatment facility and two traps below the road. Twin elliptical culverts set on the streambed convey the stream under the road (Figure 5). The stream flows through a series of beaver ponds above the road. We left the traps to soak overnight. The stream is not located in the airport project area.

On May 6, 2012, at about 9:30 a.m., we removed the minnow traps. The first trap located below a beaver dam captured 8 young-of-year coho salmon, trap two located above the culvert inlet captured no fish, trap three located below the culvert outlet captured 1 young-of-year coho salmon, and trap four located above the lagoon, captured 8 juvenile coho salmon. The unnamed stream will be nominated to the Anadromous Waters Catalog.

We returned to the airport project area and used the electroshocker to sample an unnamed stream ("Stream #1") that flows into Stream No. 258-52-10012-~~2008~~ (Figure 1). We began where the stream flows into the specified waterbody and worked upstream about 600 linear feet. We captured 2 juvenile coho salmon and 4 juvenile Dolly Varden. The unnamed stream will be nominated to the Anadromous Waters Catalog. The stream's water temperature was 8 ° C. The proposed runway project will not impact this stream. The existing channel is about 2-feet wide and was estimated to be Rosgen type E4.

At about 3:00 p.m., we set four baited minnow traps in Stream #2. We set two traps below the airport access road and two traps above the road. We left the traps to soak overnight.

We used the electrofisher to sample an unnamed stream that flows under the north end of the runway through a perched culvert (Figure 1). The culvert is perched about 6-inches. The stream flows east into Midway Bay. We began sampling about 1,000 feet east of the runway and worked downstream about 650 linear feet to the bay. We captured 7 juvenile coho salmon. The unnamed stream will be nominated to the Anadromous Waters Catalog. No water temperature was taken. The proposed runway project will not impact this stream. The existing channel is about 4-feet wide and was estimated to be Rosgen type E3.

On May 7, 2012, at about 9:00 a.m., we removed the minnow traps from Stream #2. The two traps below the road captured 1 juvenile coho salmon and 11 juvenile Dolly Varden. The traps above the road captured 4 young-of-year coho salmon. The existing channel is about 2-feet wide and was estimated to be Rosgen type E3.

The ADF&G is currently planning on returning to Old Harbor to assist in a fish sampling effort in June 2012.

cc: S. Schrof, ADF&G
L. Van Daele, ADF&G
D. Tracy, ADF&G
A. Ott, ADF&G
B. Lance, NOAA
M. Salyer, COE
A. Dickerson, Shearwater Systems
C. Berns-Lopez, Old Harbor Native Corp.

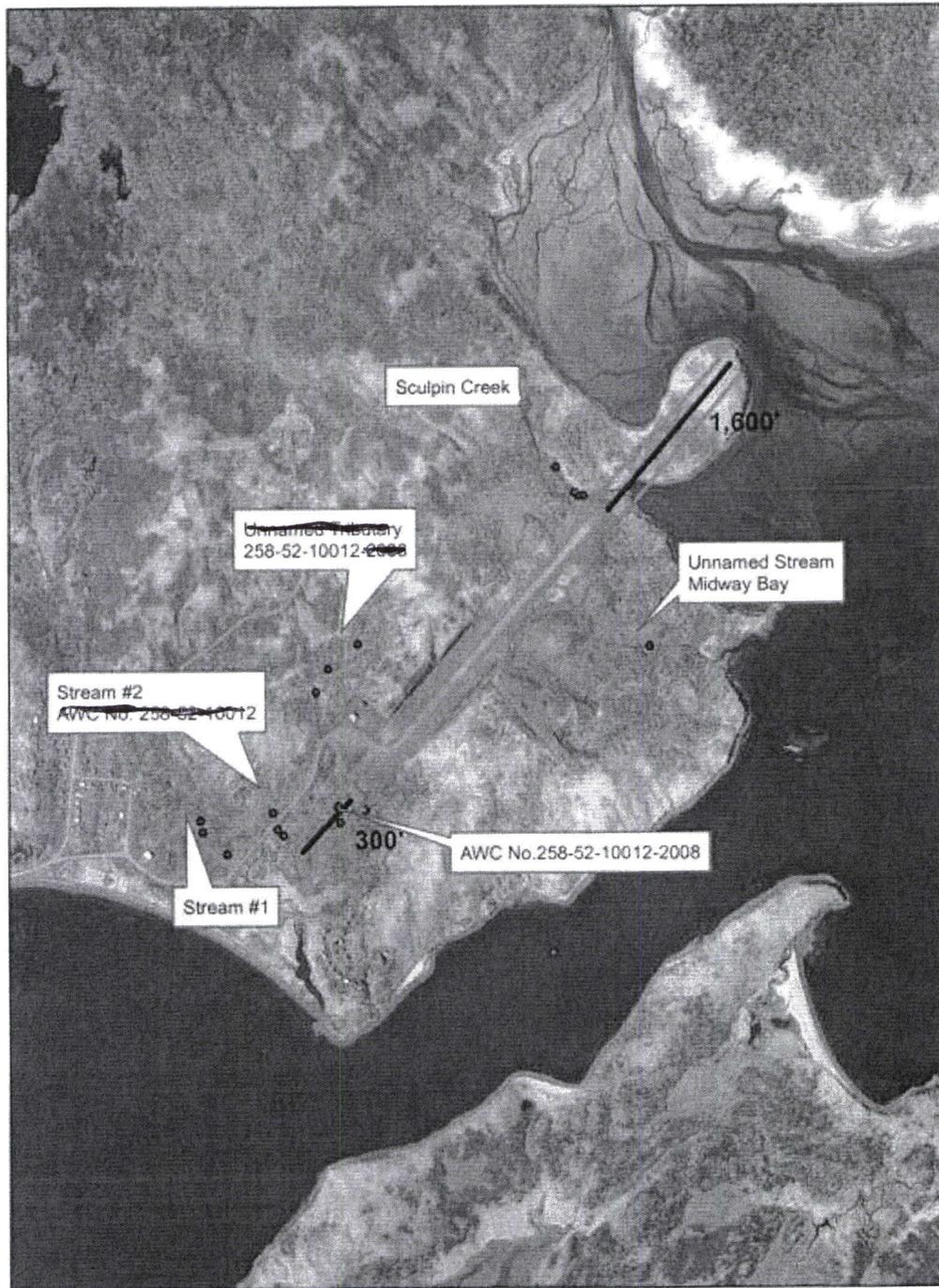


Figure 1.

0 410 820 1,640 2,460 3,280 Feet

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Figure 2. Sculpin Creek, View to west.



Figure 3. Stream No. 258-52-10012-2008 on left side of photograph, view to south.



Figure 4. Unnamed tributary stream to Stream No. 258-52-10012-2008. View to west.



Figure 5. Twin culverts in unnamed stream that flows into the village lagoon.

add new stream 258-52-10018
w/coho salmon rearing
use 9May_Track for hydrography

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