

**SITE INFORMATION**

**Site Identifier :** SU4LB3 **Landowner Type :** Federal  
**Site Name :** Seed Orchard springs **Landowner Name :** USFS  
**WRIA :** 03.0710J **Address :**  
**Region :** NS **Address2 :**  
**Trib to :** 03.0710I **City :**  
**River Mile :** 0.10 **State :**  
**River System :** Suiattle R **Zipcode :**  
**Legal Description :** NW1/4S16T32NR11E **Phone :**  
**County :** Snohomish  
**Habitat Type :**

**Directions :**

Take FS 26 up the Suiattle river, turn right on FS 25 and cross river and continue several miles to the sign indicating the Darrington Seed Orchard. Take left and follow to Seed Orchard creek. Site is located south of the creek along the toe of the hill.

**Area Overview :**

This an extremely productive spring fed system full of small passable beaver dams, good cover and organic debris

**Field Survey Information**

**Date :** 02/24/1994 **Observer :** Barkdull **Survey Type :** initial

**HABITAT INFORMATION**

**Water Source:**  Spring  Groundwater  Surface runoff

**Flow:**  Intermittent  Year-round

**Estimated Flows (cfs):** Lower end: 3.0  
Upper end: 0

**Water Temperature(C):** Lower end: 5  
Upper end:

**Receiving Water Temperature (C):**

**Other Observations:**

**Site Area Measurements:**  Indirect  Direct  Combination  
**Widths: Channel:** 6 **Ponds:** **Wetlands:**  
**Depths: Channel:** 0.5 **Ponds:** **Wetlands:**  
**Total length (includes ponds and wetlands):** 424m

**Total existing habitat area (est. m2):** 2400

Spawning area:	Mainstem: 11	Tribs:	Total: 11
Impounded area:	Mainstem:	Tribs:	Total:
Other rearing area:	Mainstem: 2195	Tribs: 205	Total: 2400
Unaccessible habitat:	Mainstem:	Tribs:	Total:

**Spawning habitat conditions:**  None  Poor  Fair  Good  Excellent

Describe spawning habitat: Sand mainly, some small patch gravel in left fork.

Rearing habitat conditions:  None  Poor  Fair  Good  Excellent

Describe pond and other rearing habitat: Low gradient, low velocity, silt bottom channel slightly backed up in places by very old porous beaver dams and surrounded by a hardwood forest.

Describe unaccessible habitat:

Wetland type:  Bog  Marsh  Scrub-shrub  Forested

Describe:

Flooding potential:  Low  Medium  High

Describe: Site is above the active flood plain.

#### FISH INFORMATION

Site entry condition:  Poor  Fair  Good

Describe: Site enters Seed Orchard Creek.

Coho access and use: Juvenile  Unknown  None  Poor  Fair  Good  
Adult  Unknown  None  Poor  Fair  Good

Describe: Juveniles throughout, adults have been observed.

Other species access and use:  Chum  Pink  Sockeye  Res. Trout  Anad trout

Describe: Trout use probable but not quantified.

ENHANCEMENT OPPORTUNITIES: It may be possible to excavate out one or both of the forks, deeping and widening to create more habitat. Spawning gravel could be added. Gravel probing indicated that the ground was soft from 5' to 6' through area. There is very little flood danger in this area. Blasting may be an option if ground is determined to be too soft to hold up equipment.

Project type: Pond enlargement and/or spawning gravel addition.

Equipment access: Fair at best. Soft soil in area may not support much heavy equipment traffic

#### ADDITIONAL COMMENTS

This area was surveyed by Rich Johnson and Co. in 1984 and is included in Technical report number 95.

#### ATTACHMENTS AVAILABLE

Aerials  Sketch  Maps  Spawning Surveys  Juvenile Trapping  
 Other References: Forest service files.

To F.S. # 25

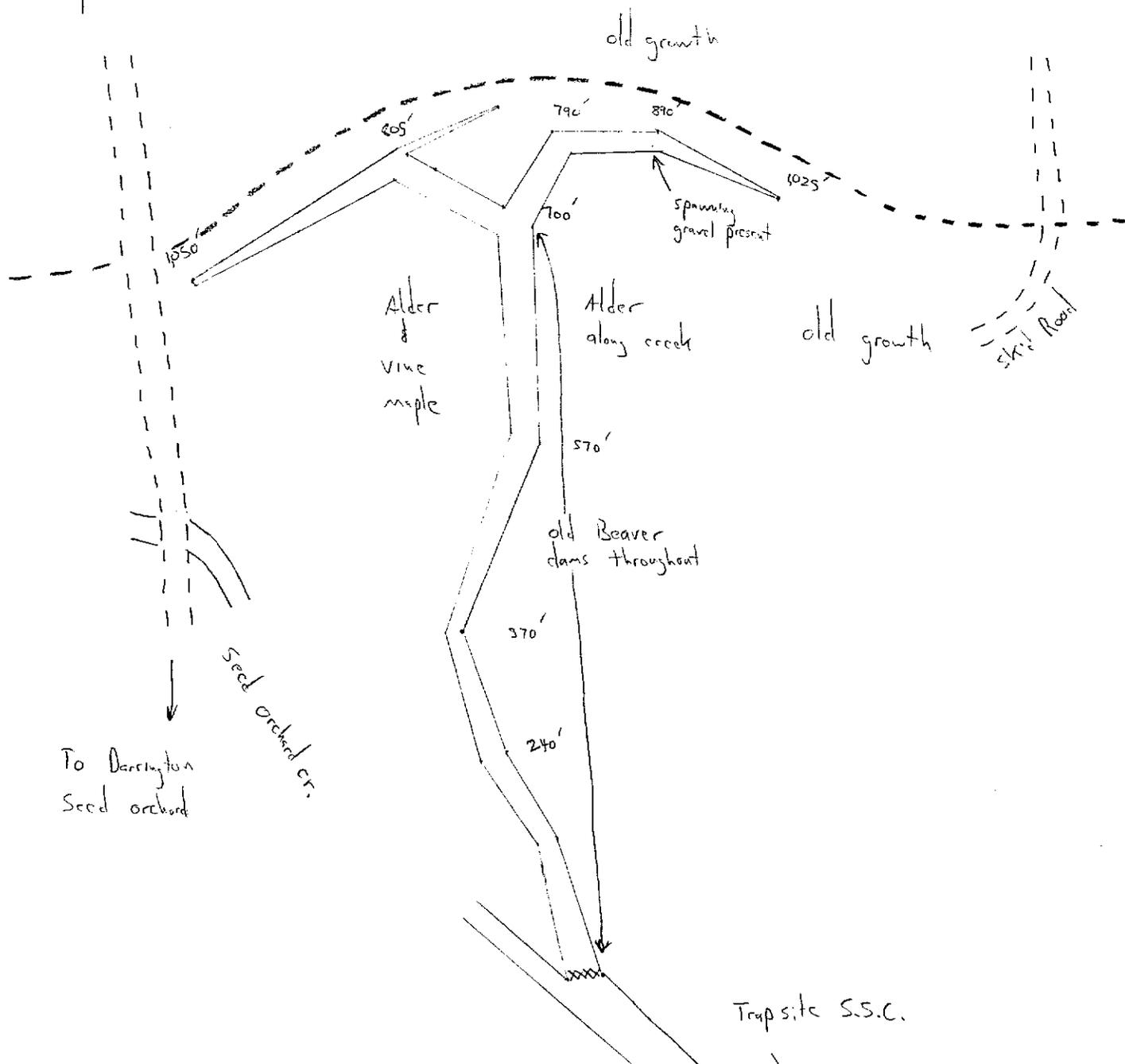


Seed Orchard springs

2-24-92

B. Barkdull

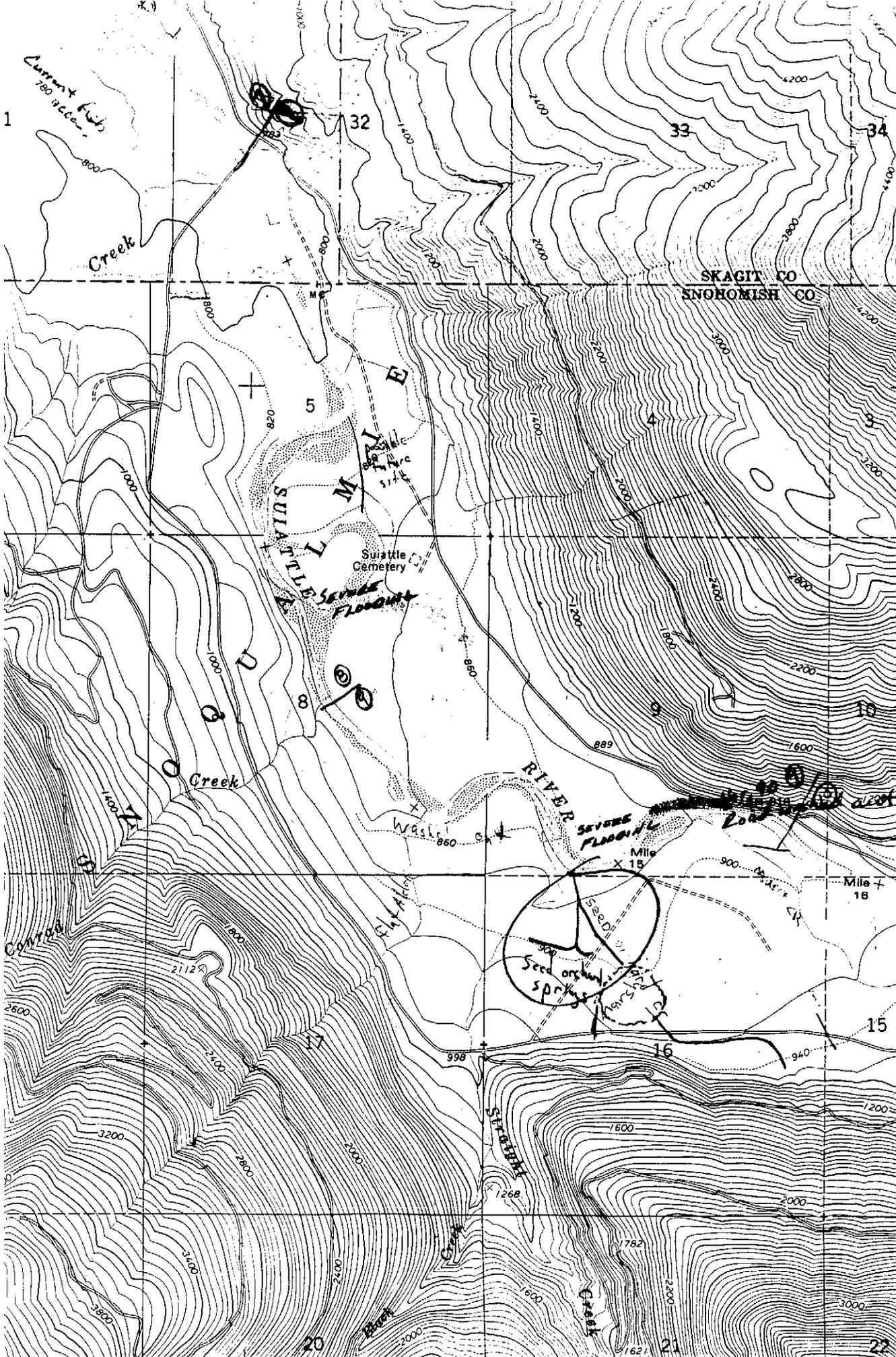
scale 1" = 150'



N  
(magnetic)



straight or Alluvial fan



5351  
T. 33 N.  
T. 32 N.  
5350  
17'30"  
5349  
SUATILLE GUARD STATION 3.1 MI.  
5347  
534600m N.

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LOCAL NAME:Seed Orchard springs

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

RIVER:Suiattle SURVEY DATE:2/24/94 OBSERVER:B.Barkdull

WRIA:03.0710j RIVER MILE/BANK LOCATION:LB 14.8

LEGAL LOCATION DESCRIPTION: 1/4 SECTION NW SEC.16 T.32N R.11E

CHANNEL TYPE: Wall base springs

	RIVER	LOW END	UPPER END	O T H E R LOCATIONS
WATER TEMP:				

FLOW (CFS):		3 cfs	(estimated)	
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WATER QUALITY:		very good		
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SUBSTRATE TYPE/SPAWNING GRAVEL ABUNDANCE & CONDITION:  
Sand mainly, some small gravel in left fork

COVER/LOD: Good throughout system

SITE DIMENSIONS: LENGTH: 1300'

WIDTH-WETTED: Ave 20'  
-CHANNEL:

DEPTH: variable

WATER SOURCE: Spring water

FISH ACCESS/BLOCKAGES/CURRENT USE (BOTH ADULTS & JUV.):  
Access throughout, juveniles and adults are present.

LANDOWNER: USFS

CHANNEL ENTRANCE CONDITIONS: Good

FACTORS LIMITING PRODUCTION:

May not be limited but production may be increased by enlarging  
area or adding spawning gravel

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NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

UP-OUTMIGRANT TRAPPING CAPABILITY/OPPORTUNITY/DIFFICULTIES:  
No problems anticipated, has been trapped by SSC

BEAVER ACTIVITY: New and old throughout

HEAVY EQUIPMENT ACCESS: Fair at best. Soft soil in area may not support much heavy equipment traffic.

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This area was surveyed by Rich Johnson and Co. in '84

6/15/96 Sand orchard cr. above marsh  
 start 10m from Marsh Paper

0.0 - brushy wet, swampy  
 46. defined db-2.0 wide some patchy gravel  
 sk 2.0 old stinger bridge 0.1 cfs  
 140 1.5 patchy gravel 2.0% grade  
 212 2.0 area gravel 2% at culverts 2.18"  
 282 1.5 underpinned, no gravel, less flow  
 350 1.0 end of flow. good flow  
 off of hill total connection only at  
 extreme flows.

