

ADFG FILE COPY

Date: 8/22/86

Camp: Titan

Unit: Annae Lake Independent
Unit # 3 1, 2

Stream Catalogue #: 102-70-058

Road: 4483.1

Quad Map: _____ T _____ R _____ Sect _____

Chick Map: _____ T _____ R _____ Sect _____

SPECIES PRESENT

Coho salmon
Cutthroat trout
Dolly Varden
Sculpin

STAGE OF DEVELOPMENT

fy, fingerlings: 1-3 in. (25+)
fingerlings 2-4 in. (4)
fingerlings, 2-3 in. (2)
fingerlings, adults; 2-4 in. (8)

TYPE OF FISH HABITAT

<u>Salmon Rearing</u>	<u>Excellent</u>	Good	Fair	Sq. Yds. _____
<u>Salmon Spawning</u>	<u>Excellent</u>	Good	Fair	Sq. Yds. _____
<u>Resident Rearing</u>	<u>Excellent</u>	Good	Fair	Sq. Yds. _____
<u>Resident Spawning</u>	<u>Excellent</u>	Good	Fair	Sq. Yds. _____

Is future fish habitat enhancement possible?
If so Describe:

YES _____ NO

Fish Present Above Road Crossing: _____
 Below Road Crossing: _____
 Within Unit Boundary: _____
 Below Unit Boundary: _____

	YES	NO
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Fish stream(s) intersection(s) marked with Metal Tags: Road No _____ Unit No _____
 Fish stream(s) Flagged: BLUE/WHITE ORANGE/WHITE _____
 Fish streams Traversed: YES _____ NO
 Traverse notes Attached: YES _____ NO
 Is Additional Parameter Information Necessary? YES _____ NO
 If so Describe:

STREAM TEMP.:

* stream #2 is an excellent salmon and resident fish rearing stream. The lower 200 feet of Str. #2 has a high concentration of organic material and very small substrate, therefore it is not considered a salmon spawning stream. Above 200 ft. up str. #2 the stream narrows, steepens to 5% and is excellent resident fish

Methods used to determine presence of fish:

Stream #	Date	#Fish	Species	Length	Gear	Time
# 1	6-22-82	30	Coho, CT, DY, Sculpin	1-4 in.	Electroshocker	30 min
# 2	6-22-82	10	Coho, Sculpin	1-3 in.	Electroshocker	15 min

Pertinent Wildlife Information: Abundant deer and bear sign throughout units.

Comments: Streams #1 and 2 were surveyed during low summer flow. Stream #1 was 5-25 ft. wide with high water width (bank-to-bank) of 50 ft. and a 17% gradient. Stream #2 was 6-8 ft. wide, 10-18 ft. wide during high water with a gradient of 1 to 5%. Stream #1 was flagged B/W for $\approx 1,200$ ft; stream #2 was flagged B/W for ≈ 400 ft. Unit #1 contains no fish streams. Timber recommends flagging/painting timber to be left to maintain streambank integrity (Mark leave and take). Both streams require full protection.

Survey Crew Members:

Glenn Freeman
Richard Yarns

Signature

Glenn Freeman
Richard Yarns

Date

6-23-82
6-24-82

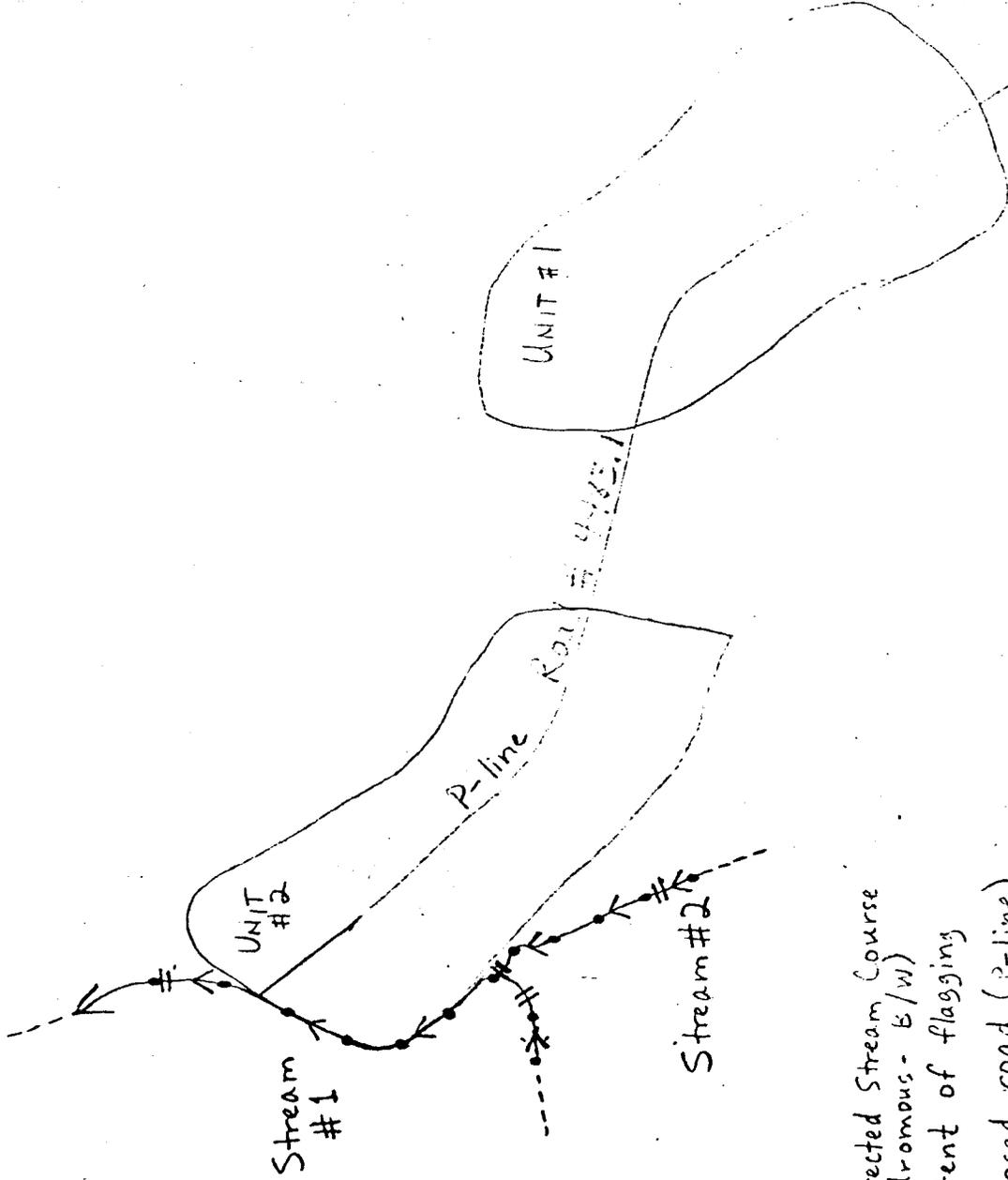
Report Reviewed By:

Richard Uherage Fish Biologist 6/30/82
Signature Title Date

Recommendations:

I recommend that all non-commercial streamside timber be marked and left for bank stability. This should be done this season. Road construction of 44831 should follow recommendations from the new road alignment survey of 8-13-81. EU

ANGEL LAKE INDEPENDENT SALE



Legend

- Protected Stream Course (indiscriminously B/W)
- // Extent of flagging
- Proposed road (P-line)
- - - Continued Stream Course

NOT TO SCALE

TIMBER HARVEST - INDEPENDENT

UNIT # Angel Lake Independent Sale - Units # 1, 2

STREAM # 1, 2

ROAD # 4483.1

STATION # _____

Primary Stream Course Protection (Blue/White Flagging)
Fisheries Habitat and/or Chronically Unstable Stream Courses

The following fish stream protection prescriptions and recommendations apply.
(Special Provisions B 6.5 and C 6.51)

1. Directional falling (to include lining and/or jacking) of timber away from stream course.
2. No limbing of timber inadvertently felled into stream course (to include windthrow). Yard timber in lengths to maximize lift. (This will require a written waiver to permit bucking in the stream course.)
3. Immediate removal of any debris introduced into stream course (to include felled trees which are marked for removal) during timber harvest. Deposit debris in a stable location above high water mark.
4. Windthrow and/or felled trees impacting stream course will be marked for "leave" and "take" timber.
 - a. Timber (to include rootwads) marked with blue ribbon should be removed in a manner to protect the integrity the stream course as much as possible.
 - b. Timber (to include rootwads) marked with yellow ribbon shall be left in place or will require special consideration (waiver) prior to removal.
5. Time timber harvest (to include windthrow) within 200 feet of spawning area of stream courses to avoid adverse impact to salmonid redds and/or pre-emergent fry. (Optimum time for harvest: approximately April 15 to August 15.)

6. Hazard (leaning) trees along stream course shall be identified and marked by Sales Administrator and felled concurrent with yarding.
7. Split the yarding along stream courses or full suspension of timber and/or products over protected streamcourses.
8. Protected primary stream courses within timber harvest unit are traversed for inclusion on sales release map.
9. Recommend input from Wildlife, Soil Scientist, and/or Hydrologist.

Additional Comments: Old fallen logs along Stream #1 and 2 should be left in place for fish cover. Timber on stream bank should be left to maintain undercut/bank integrity. Recommend marking (paint, flagging) of all timber which should be left intact.