

**SITE INFORMATION**

**Site Identifier :** SK2RB1 **Landowner Type :** Private  
**Site Name :** **Landowner Name :**  
**WRIA :** 03.0279X **Address :**  
**Region :** NS **Address2 :**  
**Trib to :** Coal Cr **City :**  
**River Mile :** 1.50 **State :**  
**River System :** Skagit R **Zipcode :**  
**Legal Description :** NW1/4S15T35NR5E **Phone :**  
**County :** Skagit  
**Habitat Type :** terrace tributary

**Directions :**

From Sedro Woolly, head east for approximately 4.2 miles to the Hoehn road on the right. Turn right and go approximately 0.1 miles to the Minkler road. Turn right and go approximately 0.25 miles to the site which is adjacent to where Coal Cr crosses Minkler road.

**Area Overview :**

This is an intermittant, surface-fed system that offers good amounts of over-winter rearing. Most of the accessible habitat flows through a pasture and in a road ditch. There were a few returning coho spawners using this site during the winter of 1996-97.

**Field Survey Information**

**Date :** 02/26/1997 **Observer :** Olis **Survey Type :** initial

**HABITAT INFORMATION**

**Water Source:**  Spring  Groundwater  Surface runoff

**Flow:**  Intermittent  Year-round

**Estimated Flows (cfs):** Lower end: 1  
Upper end: 0.5

**Water Temperature(C):** Lower end: 6.6  
Upper end: 5

**Receiving Water Temperature (C):** 5.8

**Other Observations:**

**Site Area Measurements:**  Indirect  Direct  Combination  
 Widths: Channel: 2m Ponds: Wetlands:  
 Depths: Channel: 20cm Ponds: Wetlands:  
 Total length (includes ponds and wetlands): 2260m

**Total existing habitat area (est. m2):** 5734

Spawning area:	Mainstem: 21	Tribs:	Total:
Impounded area:	Mainstem:	Tribs:	Total:
Other rearing area:	Mainstem: 3935	Tribs:	Total:
Unaccessible habitat:	Mainstem: 1778	Tribs:	Total:

Spawning habitat conditions:  None  Poor  Fair  Good  Excellent

Describe spawning habitat: Gravel varies in size: there are 1"-2" gravel patches towards the upper portion of the site, and 2"-4" gravel patches in the lower reaches of the site. There is a fair amount of cover for spawners below the first culvert but above this culvert, coho were seen spawning in the ditch along the road where there is no cover.

Rearing habitat conditions:  None  Poor  Fair  Good  Excellent

Describe pond and other rearing habitat: 50% of this site has slow-moving and pool habitat. Overall, there is a fair amount of cover present from either blackberries or small alders, except for the road ditch area, where there is no overhead cover. 35% of the habitat is choked with blackberries or canary grass, but there is not much more structure in the channel other than that.

Describe unaccessible habitat: There is a man-made pond, above Highway 20, that is made unaccessible by the outlet culvert where there is a six foot drop. The pond is 54m long by 25m wide. It has good cover along the left bank and none on the right bank. It is mudbottomed and is void of any structure. Above the pond there is 311 square meters of habitat available before you run into a falls/glide barrier. This habitat is mostly riffled, shallow and heavily silted. Several cedar trees have been removed from this area.

Wetland type:  Bog  Marsh  Scrub-shrub  Forested

Describe:

Flooding potential:  Low  Medium  High

Describe: The Skagit River does not affect this site during a flood but this stream does have high flows of its own as evidenced by a few areas of excessive bedload movement.

#### FISH INFORMATION

Site entry condition:  Poor  Fair  Good

Describe: There is a big pool at the entry, providing a fish holding area for fish wanting to access this site.

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

Describe: During the survey, four redds were observed as well as three coho carcasses. Also, a local resident observed a pair of coho salmon spawning in the ditch along Minkler road. No juvenile coho were observed during the survey and because this system dries up during the summer months, juveniles use would only occur if they migrate up after the system waters up again in the fall.

Other species access and use:  Chum  Pink  Sockeye  Chinook  Trout

Describe: On the day of the survey, a four inch trout was observed in the ditch along Minkler road.

#### ENHANCEMENT OPPORTUNITIES

Project type: It would be good to revegetate the banks of the ditch along Minkler road to provide cover for spawners as well as migrating juveniles. This may be a difficult task since the county spends much of their time cleaning ditches out. Also, on the upper reach of this creek, there is an old grade that crosses over the creek and a culvert that is too small to handle some of the higher winter flows. It appears that this road has blown out in the past and has been repaired. Since the road doesn't appear to be used any more, it might be a good idea to take this section out before it blows out again and sends all that road material downstream (there is little habitat above this culvert).

Equipment access:

ADDITIONAL COMMENTS: Cows can freely cross this stream but they seem to leave the sections that are covered with

blackberries alone. It would probably be difficult to talk the landowner into doing any fencing because the stream goes dry in the summer but the cows are getting into the channel in places.

ATTACHMENTS AVAILABLE

- Aerials       Sketch       Maps       Spawning Surveys       Juvenile Trapping  
 Other References

SKZ RBI



Scale 1" = 125m

Section 14, M. OLIS

Location NW 1/4 S15 T35N R5E

8' GLIDE & FALLS

443m

357m

HC70

2' DROP

MUD-BOTTOMED

MAN-MADE POND

2' CMP

6' DROP

HC69

HC68

HC67

1604m

1522m

1480m

GRAVEL DEPOSIT

1' DROP

1414m

NO COVER

PASTURE

1295m

1225m

PASTURE

BLACK BERRIES

905m

800m

815m

POWER LINES

HC61

5' CMP

326m

REDDS

HC62

HC63

MINKLER RD.

4' CMP

610m

TROUT

HC65

HC66

DETENTION POND

DIKE

FIELD

DIKE

BERM

131M

86M

RM1.5

[ROAD HAS BLOWN OUT BEFORE - MAY BLOW OUT AGAIN] →  
OLD GRADE [NOT DRIVABLE]

1817m

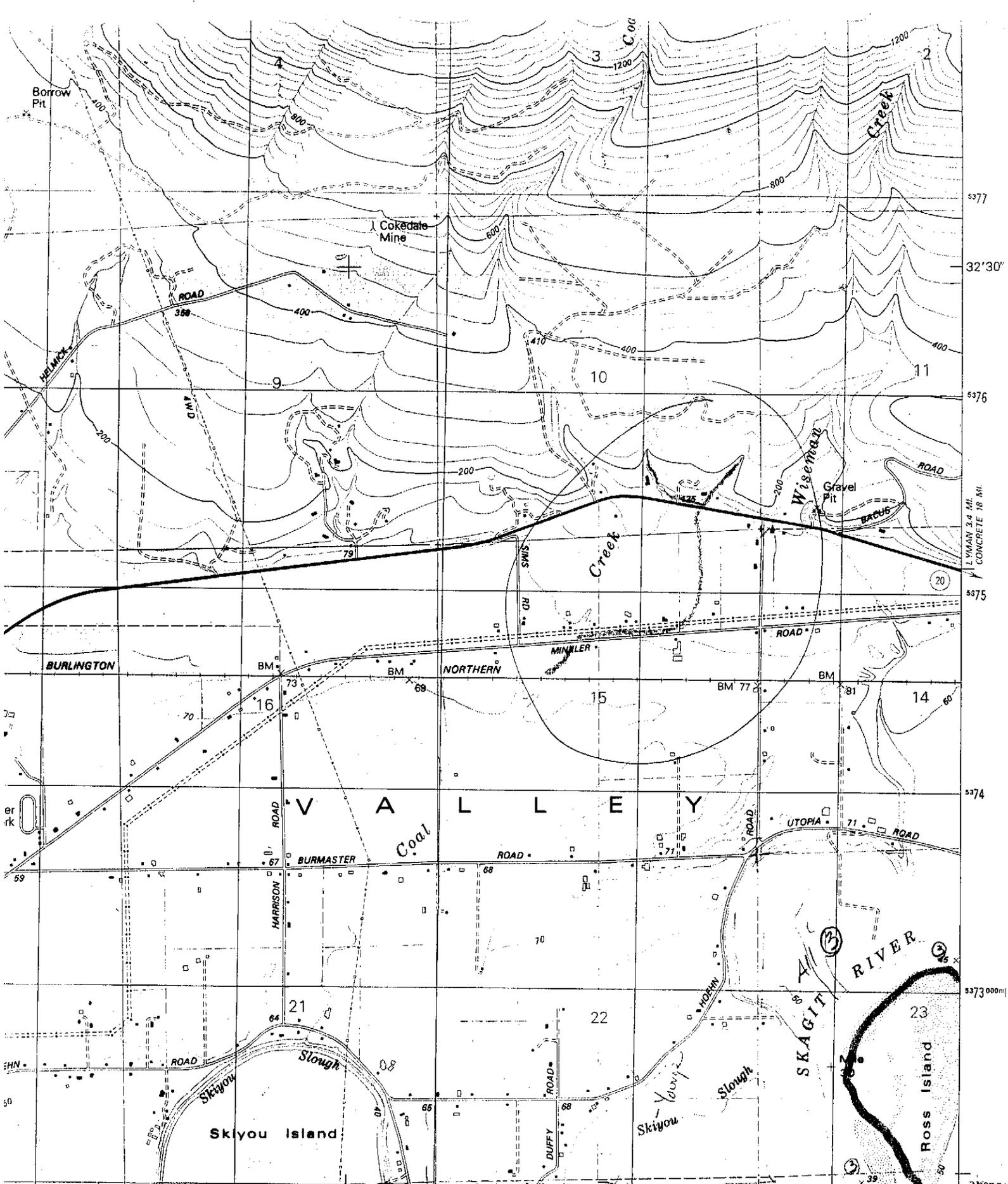
182M

HC71

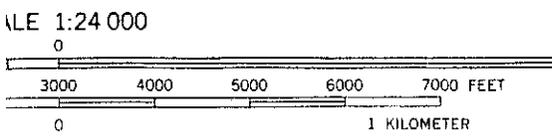
1705m

HWY. 20

COAL CREEK



AR LAKE 1:62 500 / 1580



INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1981  
 122°07'30" W

ROAD CLASSIFICATION

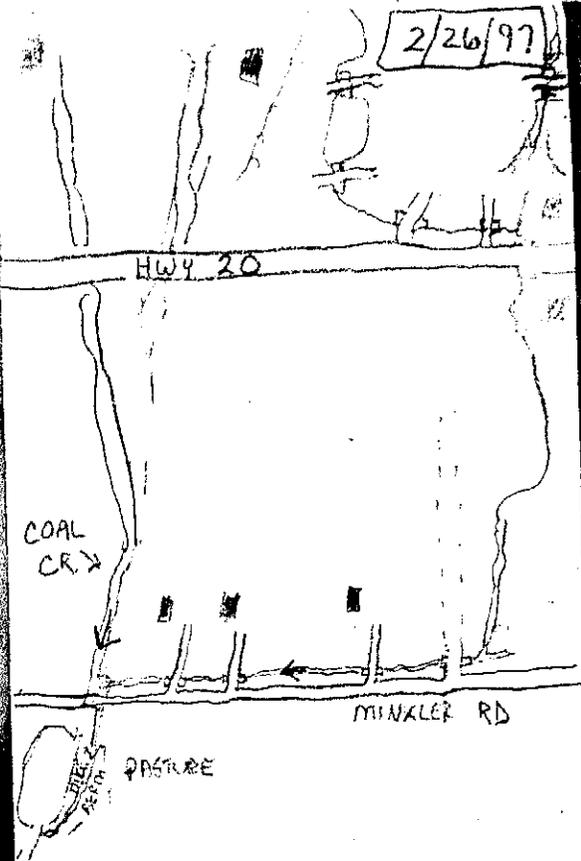
- Primary highway, hard surface
- Secondary highway
- Light-duty road, hard or improved surface

(C.L.)

SK2RB1

PM 1.5 (TRIB TO COAL CR.)

NW 1/4 S15 T35N R5E



O.O ENTRY

WTR TEMP. - 44°

REC. WTR TEMP. - 42.5°

FLOW - 1 CFS

ACCESS: GOOD - BIG POOL AREA  
@ ENTRY.

86m WW 1.5m - (slow-moving)

- 12" DEEP

- SILTY / MUD SUBSTRATE.

- CANARY GRASS ON BANKS  
& SOME TIMES IN MIDDLE OF  
CHANNEL.

• SMALL ALDER & COTTONWOOD  
ALONG BANKS

131m WW 2m

- NO COVER ON BANKS
- 1 DEAD ADULT COMO

326m WW 2m [POOL - SLOW MOV.]

- SOME P-GRAVEL SHOWING UP IN PLACES
- A COUPLE GRAVEL PATCHES 2'-4' CR. 3m<sup>2</sup> SP HAB.
- 2 POSSIBLE REDDS - 1m DEEP IN RE.
- BETTER COVER FROM SMALL ALDERS ALONG BANKS
- @ 5' CMP & MINKER RD.

354m @ UPSTREAM END OF CULVERT,

456m WW 2m (SLOW-MOVING)

- IN DITCH ALONG ROAD
- CANARY GRASS ALONG BANKS...

... & IN STREAM - 0.5m DEEP

@ 4' CONC. CULV. (DRIVEWAY)  
\* (8m LONG)

610m WW 2m (SLOW-MOVING)

- SAME AS LAST SECT.
- @ 4' CMP AND DRIVEWAY.  
8m WIDE \*

- SOME 1-2" GRAVEL
- 3m<sup>2</sup> SP. HAB (BUT NO COVER)

- COUPLE OF POSSIBLE REDDS.

808m WW 1.5m

- @ 4' CMP - 10m LONG
- 4" TROUT SEEN.
- MORE P-GRAVEL IN SUBSTA

865m WW 2m  
@ 4' CMP 9m LONG

- RIFF - 8" DEEP
- CR. TURBS INTO PASTURE & CHOKED W/ BLACK BERRIES.

905m WW 2m

- SHALLOW RIFF
- BLACK BERRIES
- SOME COBBLE
- @ 10m x 2m POOL

1225m WW 2m

- SLOW-MOVING → POOL
- BLACKBERRY CHOKED & COVER - OCCASSIONALLY CH. BY CANARY GRASS
- OCCASSIONALLY 2' DEEP
- SILT W/ P.G.R. POCKETS

1295m WW 2m

- SOME TREE COVER AS WELL AS BLACK BERRIES

1414m WW 2.5m

- NO COVER - OPEN
- LOTS OF RUSH & CATTLE TRACKS.
- @ POW OF BLACK BERRIES, END OF PASTURE, AND 1' DROP.
- 1" GRAVEL SHOWING UP
- 4m<sup>2</sup> POT. SP. HRB

1480m WW 2.5 RIFF

- 6" DEEP - BANKS W/ 3 FEET, (LITTLE BLOW OUT)
- F-4" GRAVEL
- NOT MUCH COVER.

1480m EXCEPT FOR  
CLUMP OF TREES ADJACENT  
TO HOUSE

- 3-4m<sup>2</sup> SA HAB

1522m WW 2m RIFF

- BLACKBERRIES - 2m<sup>2</sup> SA HAB.

- @ 6'x6' BOX CULV. (CONCRETE)  
& HWY 20

1543m WW 2m RIFF (1553m  
FORK 88)

- @ OTHER END OF CULV.

1604m WW 2m (HOUSE ON LB)

- RIFF - COBBLE SURFACE

- @ 1 FOOT MANMADE ROCK  
BERM - PASSABLE - INCLUDES BARK

1657m WW 1m

- SOME BOULDERS SHOWING  
UP - G

- AT EDGE OF WOODED AREA  
AND SLOPE.

1705m WW 1m RIFF

- OCCASIONAL 2"-4" GR.  
BUT UNCLEAN IF STEM  
PACKS ENOUGH WFL FOR  
SPRAWLERS

- GRADE STARTING TO  
INCREASE

- GOOD PRIM. & SEC. COVER

1817m WW 1.5m

- SMALL BOULDERS, SMALL  
CASCADES, AND SMALL POOLS

- @ 2' STEEL PIPE

- 6' FOOT DROP END  
OF RISE ACCESS

1817m... THERE IS A  
LOWLY 2' CMP THAT IS  
MOSTLY CLOGGED.

- PROB. BLEW OUT RD. @  
ONE TIME.

1828m UPSTR END OF PAE

- 1845m WW GR

- POOL AREA @ BASE OF  
STEEP CASCADE - NOT MUCH  
HAB. BEHIND RD.

- WTR TEMP  $41^{\circ}$  - 0.25 CFS

- LOOKS LIKE RD WILL  
BLOW OUT AGAIN PROB.

GOOD IDEA TO REMOVE PIPE  
ROAD DOESN'T GET MUCH  
USE.

@ 1553m - R. FOLK - REZERO

- WATER A LITTLE MORE  
TANNIC LOOKING.

13m - 2m WW POOL

- 1" - COBBLE SUBSTR.

- 2m<sup>2</sup> SP HAB

- COVERED W/ BLACK BERRIES  
& CANARY GRASS

- @ DRIVEWAY AND 3'  
CONCR. CULVERT. - 2' DEEP

27m ON OTHER END OF  
CULV. & DRIVEWAY.

108m WW 1.5m

- SLOW-MOVING CHOKED W/  
CANARY GRASS - 12" DEEP

- CANARY GRASS & BLACK BERRIES  
ON BANKS.

131m WW 8m - SHALLOW,  
MUCKY, AREA - CHOKED  
W/CANARY GRASS & BLACK  
BERRIES - VERY SLOW-MOVING

- SOME SKUNK CABBAGE  
@ DRIVEWAY & 4' CMP.

145m @ UPST. END OF CULV.

219m WW 2m - SLOW  
MOVING EXCEPT @ UPPER  
END OF SECTION  $\approx$  (25m)

- COVERED W/BERRIES  
- SOME SHALLOW AREAS MIXED  
W/DEEPER POOLS.

- @ 2' CMP W/6' DROP  
- END OF FISH ACCESS

- 223m UPPER END OF CULV.  
& BEGINNING OF POND.

277m WW 25m POND

- MUD BOTTOMED MAN-MADE  
POND  $\approx$  2m DEEP

- 2' CMP @ UPPER END W/  
2' DROP (BARRIER TO SW.)  
- ALSO 1' CMP W/NO FLOW  
ADJACENT TO 2' CMP.

282m UPSTASH, END OF CULV.

357m WW 3m

- SHALLOW, RIFF HEAVILY  
SILTED

- SOME GRASS & SKUNK  
CABBAGE

- SEVERAL CEDARS REMOVED  
DRAFT AREA.

443m WW 1m RIFF  
BOULDER → COBBLE w/SOME  
SMALLER GRAVEL 3m<sup>2</sup> SP.

- IN WOODED AREA  
- @ 8' FALLS/GLIDE  
END OF ANADROMOUS  
ZONE.

- WTR TEMP - 41° - FLOW 0.3

- WTR TEMP LEAVING POND - 41°

### COMMENTS

- INTERMITTANT

- MOD. FLOOD POT.

- SP. HAB VARIES AS ITS FOUND  
W DIFF. PARTS OF THE SYSTEM

- LOTS OF SLOW-MOVING, POOL  
AREAS CHOKED w/CAN. GRASS  
FOR OVER-WINTER REARING,  
& BLACK BERRIES

- POND IS NOT ACCESSABLE

- 4" TROUT & DEAD AD.

COHO FOUND IN LOWER  
END OF SITE.

- GOES THROUGH SEVERAL  
PRIVATE PROP.