State of Alaska
Department of Fish and Game
Habitat and Restoration Division

Nomination for Waters Important to Anadromous Fish

Region: SOUTHCENTRAL

USGS Quad: Seward C-8

Anadromous Water Catalog Number of Waterway: 244-30-10010-2177-3020-4015

Name of Waterway: Quartz Creek Material Site Pond and Outlet Channel ☐ USGS Name ☑ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	01 243		11/2019
Revision Year:	2001	Regional Supervisor	Date
Revision to:	Atlas ___ Catalog ___ Both X	AWC Project Biologist	11/15/01 Date
Revision Code:	A-1 A-2 C9	Drafted	12/18/01 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Sockeye	001-(1/4,2/2,5/31,6/13,7/30,8/1	X	X		☑
Coho	9/1/00	X			☑
Dolly Varden	2001 (1/4, 2/2, 8/17)		X		☐
chinook	1/4/01		X		☑
rainbow trout	1/4/01 and 6/13/01		X		☐

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: In September 2000, I observed 5 coho salmon adults in the outlet channel of the new Quartz Creek Pond. On 7-29-01, I personally observed 22 sockeye (12 spawning pairs on redds) salmon in the outlet creek of the new Quartz Creek Pond.

Carol Sanner (ADOT) monitors Quartz pond as part of the mitigation monitoring program for that site. Ms. Sanner made fish collections and observations from September 8, 2000 to September 7, 2001, 11 collection dates . Various people accompanied Ms. Sanner to the site including Landua (ADF&G), Stickert (USFWS), Fay (ADOT), and myself. The following fish were observed or captured using minnow traps: 9-8-00, 4 spawning sockeye (SS) in outlet channel,; 1-4-01 32 SS juveniles., 11 rainbow trout (RT) juveniles,1 king salmon (KS) juvenile and 1 Dolly Varden (DV) juvenile in the outlet channel; 2-2-01, 2 SS and 1 DV juvenile in the outlet channel.; 5-31-01, 1 SS juv. in outlet channel; 6-13-01 4 RT and 1 SS juvenile; 7-30-01, 26 SS spawners in the outlet channel; 8-17-01 49 DV juveniles in the pond; and on 9-7-01, 164 DV juveniles, 28 RS spawners and 1 SS juvenile were captured or observed in the pond outlet and outlet channel, and 69 DV and 1 SS juvenile were captured in the Quartz Creek pond. Mr. Liepitz (ex-ADF&G employee) observed 26 SS spawners in the outlet channel on 7-30-01.

Name of Observer (please print): Dean W. Hughes

Signature: Dean W Hughes

Date: 10/15/01

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 Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

Signature of Area Biologist: _____

Revision 3/97

Dean Hughes

From: Carol Sanner [carol_sanner@dot.state.ak.us]
Sent: Wednesday, August 22, 2001 4:33 PM
To: Mulcahy, Laurie
Cc: Hughes, Dean; Glenda, Landua,; neil_Stichert@fws.gov; Ruehle, Jerry; Ballard, William; Davidson, Dean
Subject: Fishing Trip

Here's a short report on Aug 17 sampling on **Quartz Creek Pond:**

Outlet channel **fish escapement:** 26 RS, plus 2 bear eaten carcasses on bank (1 adult right at pond outlet).

Fish trapping effort in pond around shore and at outlet: 5 traps set for 4 hours each;
281 DVs measuring 2.5 -7 in (as large as would fit in trap)
1 SS smolt
1 SS Presmolt

Wildlife:
2 sandpipers, 1 lesser yellowlegs, eagle (feeding fledgling in nest), 3 common mergansers, coyote food cache, 1 kingfisher

Vegetation:
98% survival on willow livestakes on shoreline; 75% of the YRC plantings alive, some marginal (transplanted grass, alder, aspen, cottonwood, etc.); 100% survival on spruce tree tube seedlings;
mulched/fertilized area with 50% coverage of fireweed seedlings, dwarf jacob's ladder, salmon berry, some annual rye ; Direct coorelation between mulched and fertilized area and native plant regeneration. (Unmulched area left by contractor has very sparse plant germination). Ripped areas higher veg density than areas compacted by vehicles.

Outlet channel terrace- 100% natural vegetation recovery.

Pond water temp: 50 degrees F.
Continuous flow from pond through the step pools.

Toodles,

Carol

ADOT&PF Monitoring Program for Sterling Highway, MP 37-45

Fish Observations on Quartz Creek Material Site Fish Pond and Outlet Channel 2000-2001*

Date	Location	Fish Species Observed/ Age Class/ #	Fish Species Captured/ Age Class/ #	Observer
09/08/00	Outlet Channel	SS / Spawners / 4	Not trapped	Sanner
11/22/00	Pond and Outlet Channel	0	0	
12/24/00	Pond and Outlet Channel	0	Not Trappes	
01/04/01	Outlet Channel	0	SS Fry and Parr 32 RBT Juv. 11 KS Smolt 1 DV Juv. 1	Sanner/Landua
02/02/01	Outlet Channel	0	SS Fry 2 DV Juv. 1	Sanner
03/02/01	Pond and Outlet Channel	0	0	Sanner
05/31/01+	Pond outlet	0	SS Smolt 1	Stickert (USFWS)
06/13/01	Outlet Channel	Several Juv salmonids seen	RBT Juv 2 RS Fry 1	Sanner/Fay
06/28/01	Pond Outlet Outlet Channel	SS Parr 1 Several Juv. salmonids seen	0	Sanner
07/30/01	Outlet Channel	RS/ Spawners/ 26	Not trapped	Liepitz
08/17/01	Upper Pond (SE) Upper Pond (NE)	Juv. Jumpers	DV 100-150mm 17 DV 75-150mm 32	Sanner

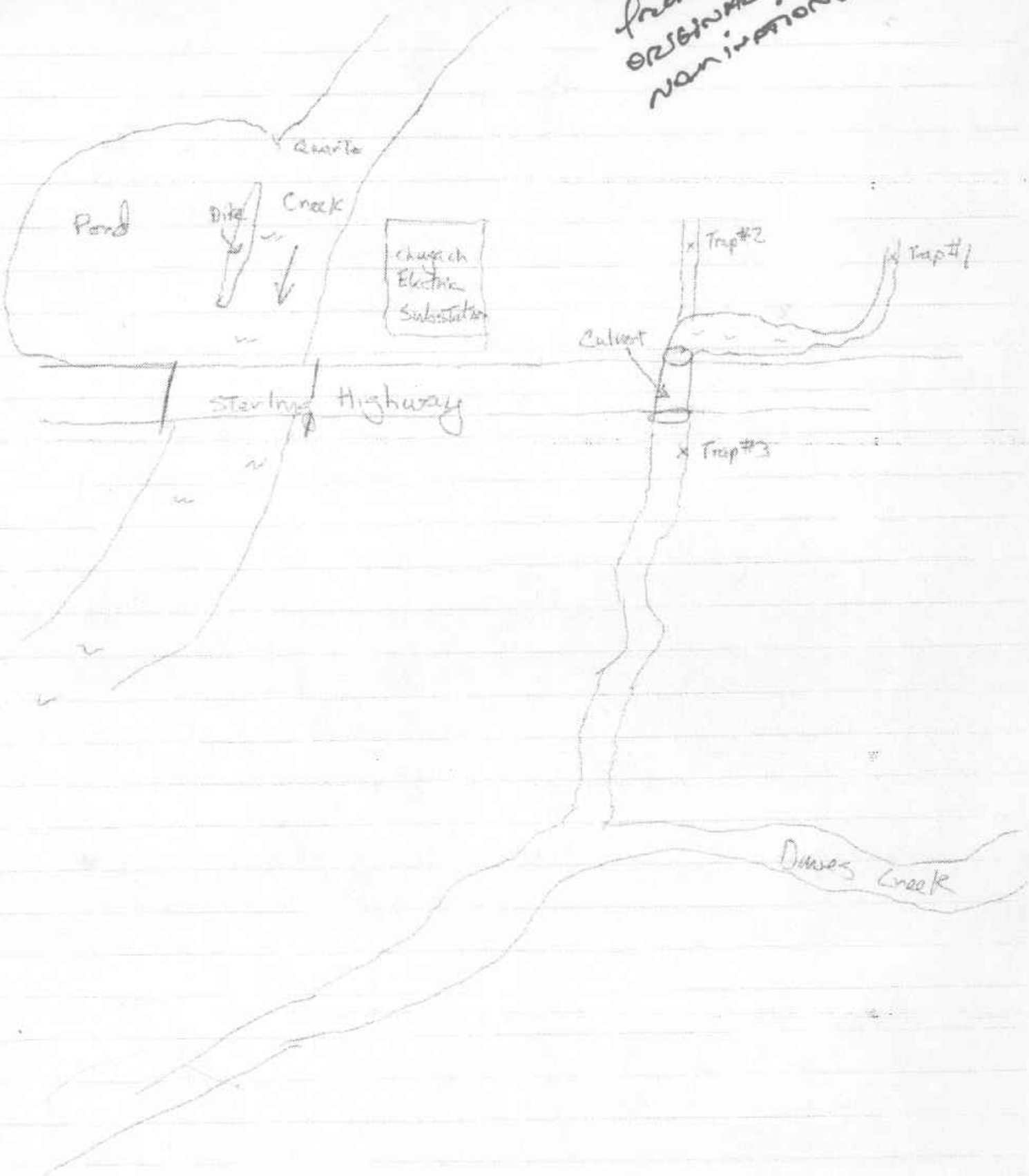
Fish Observations on Quartz Creek Material Site Fish Pond and Outlet Channel 2000-2001*, Cont'

Date	Location	Fish Species Observed/ Age Class/ #		Fish Species Captured/ Age Class/ #			Observer
08/17/01	Pond Outlet (S)	Juv. Jumpers		DV	60-170 mm	107	Sanner
				DV	60-170 mm	56	
	Pond Outlet (SW)	Juv. Jumpers		SS	Parr	1	
	Mid-Pond(N)			DV	60-150 mm	69	
				SS	Smolt	1	
	Outlet Channel	RS/ Spawners	28				
		DV 170mm	1				
09/7/01	Outlet Channel	RS carcasses		Not trapped			Sanner

*Pond and outlet constructed in summer, 2000; Outlet channel connected to pond by breaching temporary dike, September 30, 2000.

Prepared 10/22/01 C. Sanner, ADOT&PF

SKETCH
from
ORIGINAL 404S
NOMINATION #91-084

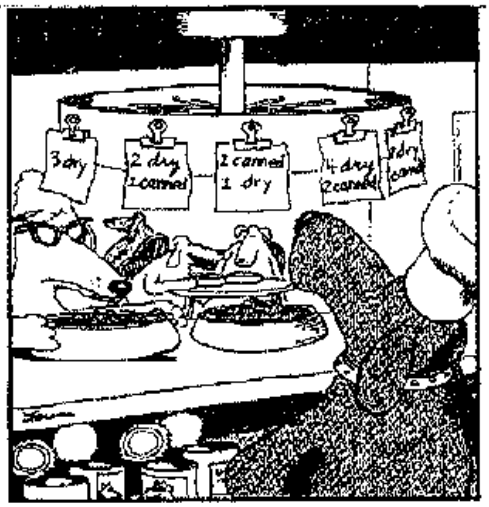


HERE'S THE FAX...

ALASKA DEPT. OF
FISH & GAME

OCT 22 2001

REGION II
HABITAT AND RESTORATION
DIVISION



Dog restaurants

TO: Dean Hughes	FROM: Carol Jo Sanner	
COMPANY: ADF&G	ADOT&PF/Preliminary Design & Environmental	
DEPT.: Habitat and Restoration	PHONE NO.: 269-0531	
FAX NO.: 267-2464	FAX NO.: (907) 243-6927	
No. Of Pages: 2	DATE: 10/22/01	TIME: 1300

COMMENTS:

Dean:

Here is the plan sheet with the pond, channels and culverts. I checked the as-built of the pond, which is at a larger scale, but it doesn't extend to the CEA substation. Consequently, it doesn't show the channel crossings at the highway or near the CEA station. The actual pond (8.5 acres) is very close, if not identical to what is shown in this plan sheet. So, I think this is a better view of the pipes, stationing and Quartz Creek distributaries in the vicinity.

I am also e-mailing two aerial photos (obliques) taken 5/8/01 showing the pond and part of the outlet channel. We'll try ot get the pond superimposed on the 1997 aerial photo for you.

Carol

THE ORIGINAL DOCUMENT BEING TRANSMITTED WILL BE SENT BY:

Not be sent Courier/UPS Overnight Regular mail Other b:\forms\fax\mast.tif

the highway, and [illegible]

3. One contiguous 10 acre area is provided within the clearing limits for staging and/or stockpiling in the pit area. The staging area cannot be used unless the material site is used for material extraction.

4. Personnel, materials, and equipment needed to control oil or other hazardous waste shall be on site during all work at this site. Work at this site shall be addressed in the Hazardous Materials Control Plan as required in Section 641 of the project Special Provisions.

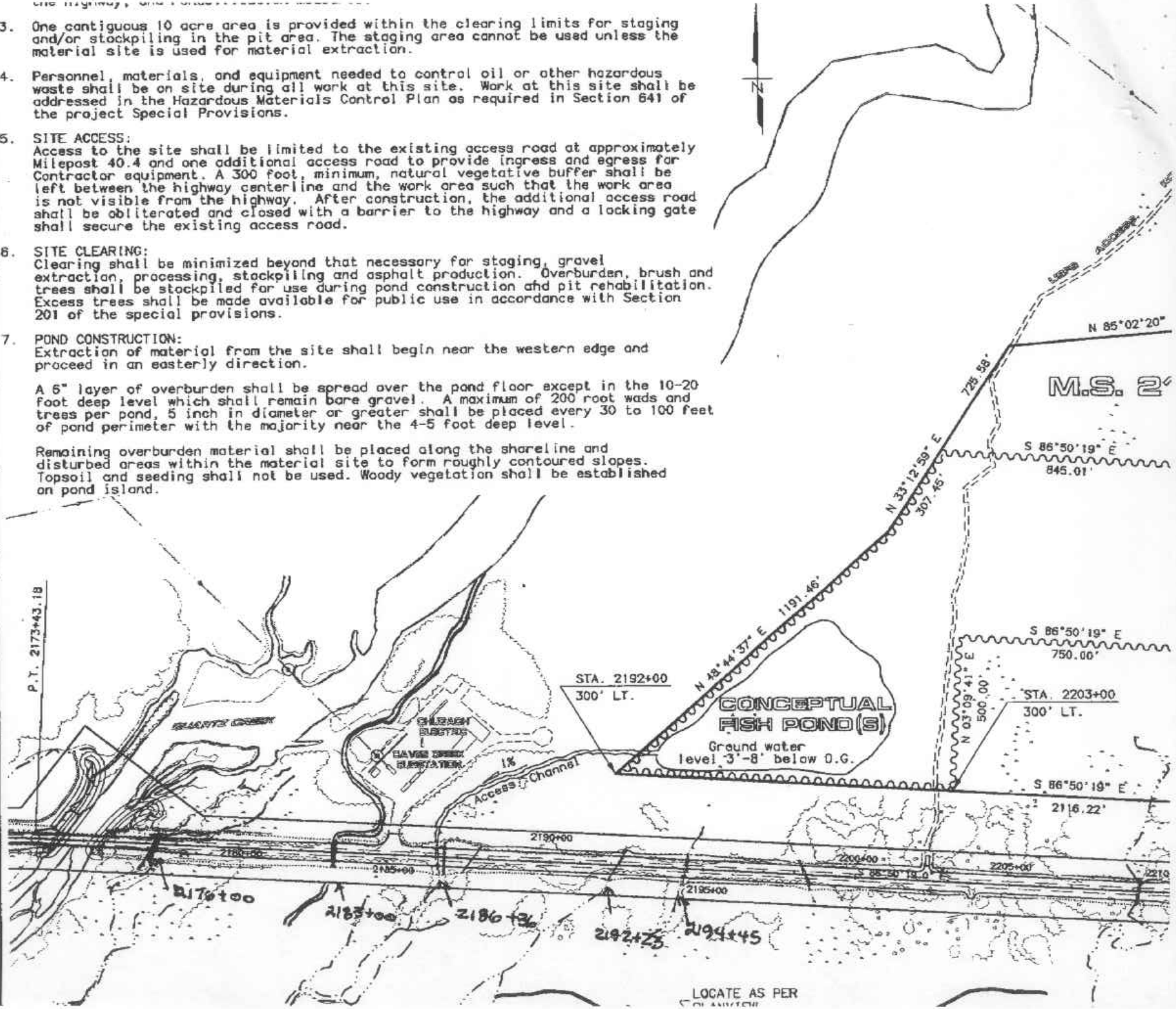
5. SITE ACCESS:
Access to the site shall be limited to the existing access road at approximately Milepost 40.4 and one additional access road to provide ingress and egress for Contractor equipment. A 300 foot, minimum, natural vegetative buffer shall be left between the highway centerline and the work area such that the work area is not visible from the highway. After construction, the additional access road shall be obliterated and closed with a barrier to the highway and a locking gate shall secure the existing access road.

6. SITE CLEARING:
Clearing shall be minimized beyond that necessary for staging, gravel extraction, processing, stockpiling and asphalt production. Overburden, brush and trees shall be stockpiled for use during pond construction and pit rehabilitation. Excess trees shall be made available for public use in accordance with Section 201 of the special provisions.

7. POND CONSTRUCTION:
Extraction of material from the site shall begin near the western edge and proceed in an easterly direction.

A 6" layer of overburden shall be spread over the pond floor except in the 10-20 foot deep level which shall remain bare gravel. A maximum of 200 root wads and trees per pond, 5 inch in diameter or greater shall be placed every 30 to 100 feet of pond perimeter with the majority near the 4-5 foot deep level.

Remaining overburden material shall be placed along the shareline and disturbed areas within the material site to form roughly contoured slopes. Topsoil and seeding shall not be used. Woody vegetation shall be established on pond island.



should be no greater than 5:1 for 25 feet along the perimeter of
Slopes enclosed by the 5:1 may match the angle of repose.

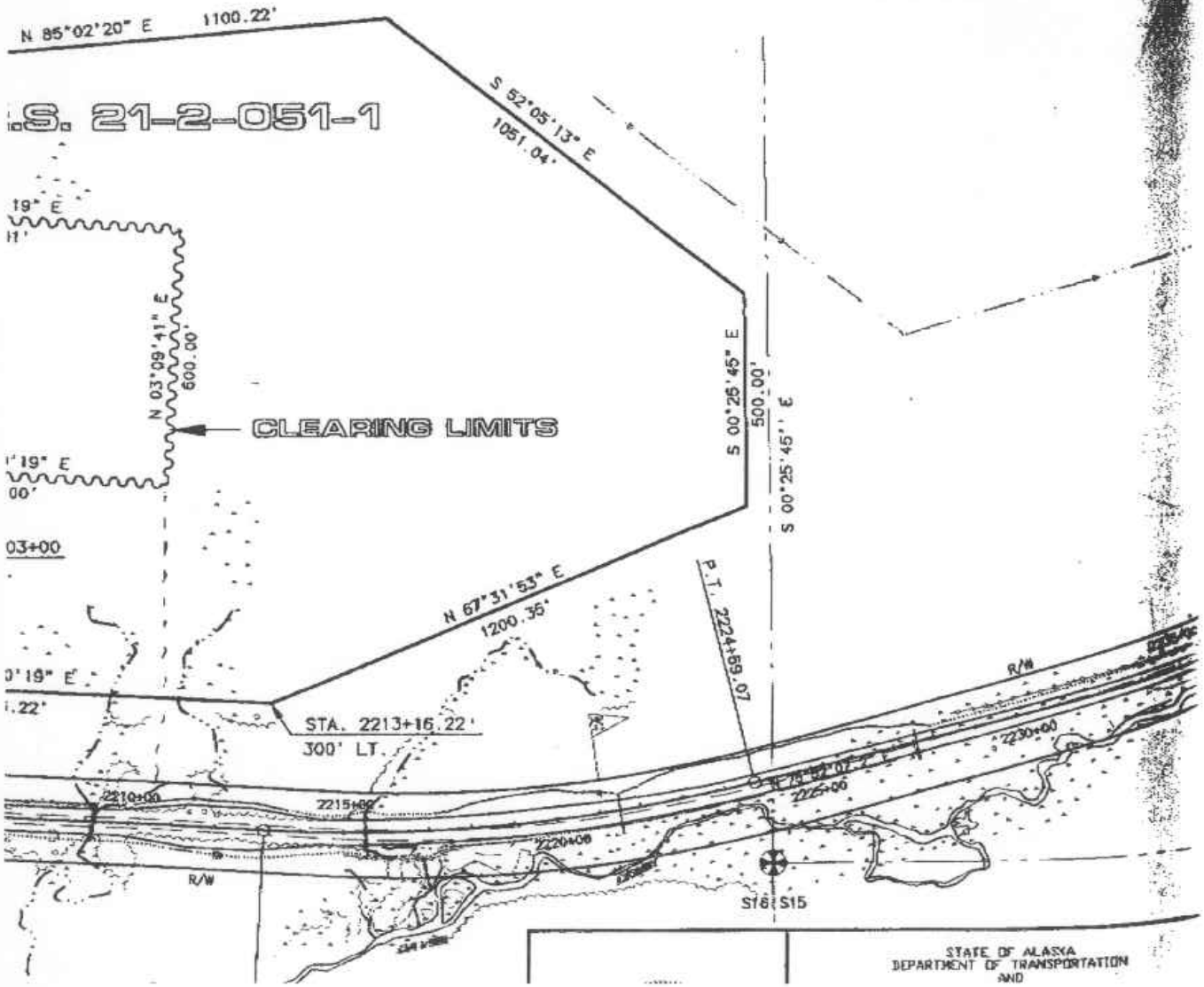
At least 50% of the fish pond (by surface area) shall be construct
a depth of 7 foot or less below Water Surface Elevation (WSE) at
flows. A minimum of 25% of fish pond shall be excavated to at leas
below WSE, with a maximum depth of 20 feet below WSE.

Islands and peninsulas shall be constructed so as to have at least
above WSE.

9. POND SHAPE:
Excavation shall be performed so as to leave irregularly shaped
The maximum pond size shall be 10 acres. The optimal pond size

10. INTERCONNECTING CHANNELS:
Ponds shall be located so as to minimize the length of interconnec
channels. Abrupt elevation drops shall be no greater than 6 inch
stepped gradient is required rock weirs or other structures shall
to reduce the effective gradient. Ponds shall be connected in ser

11. Construct access channel at a grade not exceeding 1%, match culver
elevation at Sta. 2186+36.5.



Edward W. Weiss
From: Don McKay [don_mckay@fishgame.state.ak.us]
Sent: Friday, August 10, 2001 9:03 AM
To: Edward W Weiss
Subject: FW: Fish in Quartz Creek Pond

-----Original Message-----

From: **Landua, Glenda [mailto:GLandua@borough.kenai.ak.us]**
Sent: Friday, August 10, 2001 8:30 AM
To: Lance Trasky (E-mail); Don McKay (E-mail); Dean Hughes (E-mail); Carol Sanner (E-mail); Fisler, Suzanne; Mohorcich, John; Czarnezki, John; Neil Stichert (E-mail); Vicki Davis (E-mail); Randall Davis (E-mail)
Subject: Fish in Quartz Creek Pond

Kelly Wolf phoned yesterday from the Quartz Creek Pond and reported seeing two adult sockeye swimming in the pond. Over the course of the past couple of weeks, Dean and Gary reported seeing a dozen plus spawning pairs of sockeye in the stream below the step pools. Kelly also reported seeing juvenile fish in the lake near the outlet.

Edward W. Weiss

From: Wayne Dolezal [wayne_dolezal@fishgame.state.ak.us]
Sent: Wednesday, August 08, 2001 3:30 PM
To: 'Edward W Weiss'
Cc: 'Hughes. Dean'
Subject: RE: Spawning Sockeye in outlet from "Liepitz Pond"

Dean Hughes confirmed Gary's sitings and will make out the paperwork.

-----Original Message-----
From: Edward W Weiss [mailto:ed_weiss@fishgame.state.ak.us]
Sent: Wednesday, August 08, 2001 3:20 PM
To: wayne_dolezal@fishgame.state.ak.us
Subject: Re: Spawning Sockeye in outlet from "Liepitz Pond"

It wouldn't hurt but given his history it's probably not necessary. We do need to have him fill out a nomination and sign it though.

----- Original Message -----
From: "Wayne Dolezal" <wayne_dolezal@fishgame.state.ak.us>
Date: Friday, July 27, 2001 4:55 pm
Subject: Spawning Sockeye in outlet from "Liepitz Pond"

> FYI - Gary Liepitz just phoned to report that he had been at
> Liepitz Pond on
> Quartz Creek this afternoon. Between the inlet to the culvert and
> the stop
> pools he observed 13 spawning sockeyes and 7 spawned out sockeyes.
> When he
> reached the pond he flushed a pair of canvasbacks. Do we need to
> confirm this fish presence and activity and get the "stream" added
> to the catalog?
>
>

Edward W. Weiss

From: Don McKay [don_mckay@fishgame.state.ak.us]
Sent: Tuesday, August 07, 2001 1:30 PM
To: Lance L Trasky
Cc: Cecil F Rich; Cevin L Gilleland; David B Ryland; Dean W Hughes; Douglas D Hill; Edward W Weiss; Gay A Muhlberg; Jeff Davis; Joe Meehan; 'Landua, Glenda'; Steven W Albert; Stewart J Seaberg; Wayne Dolezal
Subject: FW: Quart Creek Pond and Stream Photos

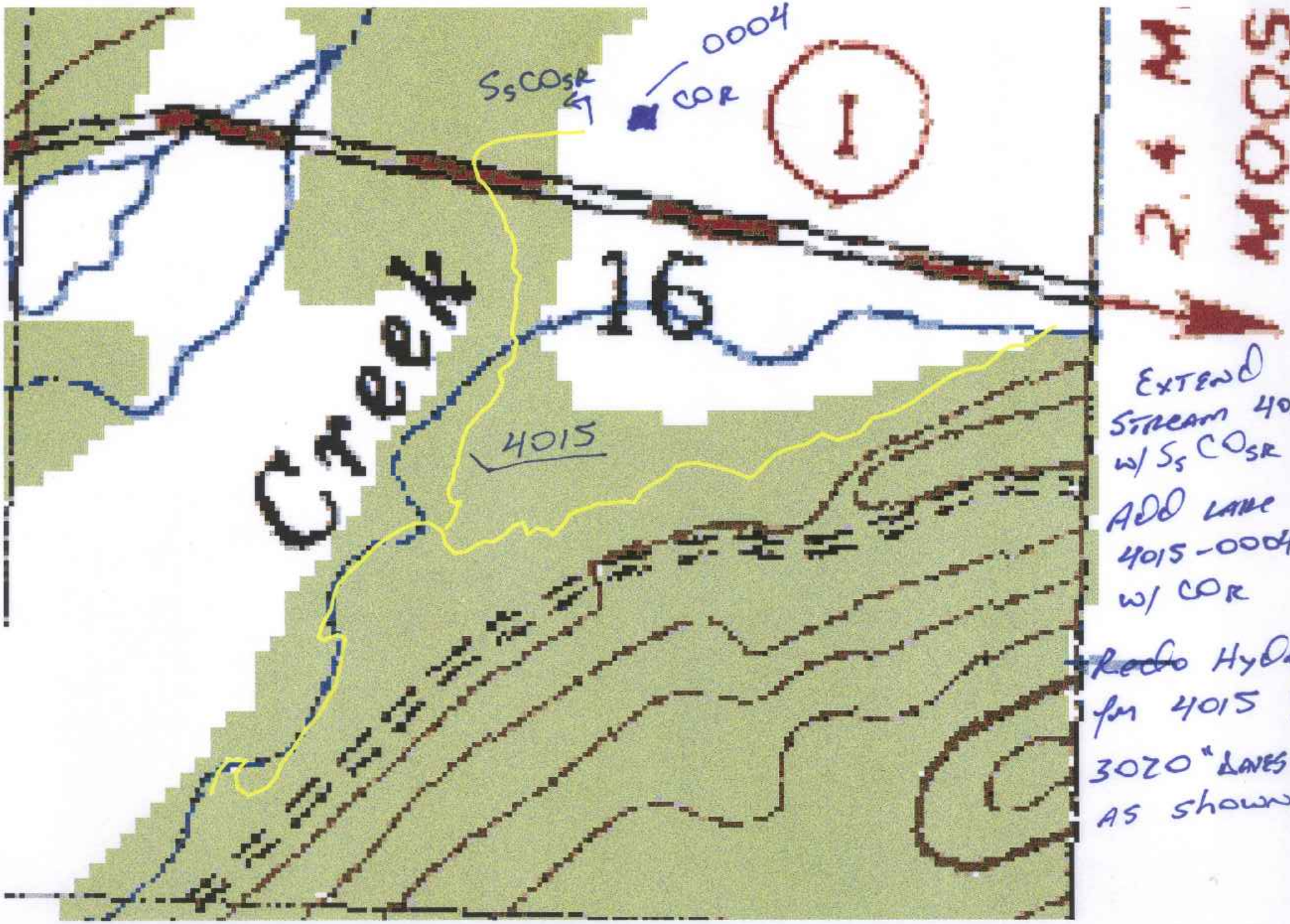
quartz creek 1.jpg quartz creek 2.jpg quartz creek 3.jpg quart creek 4.jpg

FYI

-----Original Message-----
From: Landua, Glenda [mailto:GLandua@borough.kenai.ak.us]
Sent: Tuesday, August 07, 2001 12:17 PM
To: Don McKay (E-mail); Lance Trasky (E-mail); Carol Sanner (E-mail); Suzanne Fisher (E-mail)
Cc: Vicki Davis (E-mail); Neil Schebert (E-mail); Kelly Wolf (E-mail); Dean Hughes (E-mail)
Subject: Quart Creek Pond and Stream Photos

FYI - Attached are photos taken by Gary Liepitz on July 13th up at the Quartz Creek Pond. At that time, Gary saw over a dozen pairs of spawning sockeye in the stream (between the bottom step pool and the highway culvert). There were also spawning fish in the stream below the road culvert. He said he also saw juvenile fish rising in the pond. Dean saw a similar number of spawning fish last weekend on his trip through.
<<quartz creek 1.jpg>> <<quartz creek 2.jpg>> <<quartz creek 3.jpg>>

<<quart creek 4.jpg>>



Extend Stream 4015 w/ SsCOSR

Add Lake 4015-0004 w/ COR

~~Redo~~ Hydro for 4015 &

3020 "Daves Cek" as shown