



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

Nomination for Waters
Important to Anadromous Fish

Region SOUTHCENTRAL II

USGS Quad ANCHORAGE C-7, C-8

Anadromous Water Catalog Number of Waterway

247-50-10330-2050-3050-4027-5038

Name of Waterway RAINBOW LAKE (RAILROAD LAKE)

USGS Name Local Name

Addition Deletion Correction Backup Information

Nomination # 03 043
Revision Year: _____
Revision to: Atlas _____ Catalog _____
Both X
Revision Code: A-2

For Office Use

[Signature] 11/12/02
Regional Supervisor Date
[Signature] 11/12/02
AWC Project Biologist Date
[Signature] 11/13/02
Drafted Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Rainbow Trout	7/15/1960, 8/7/1991				<input type="checkbox"/>
Coho	7/15/1960, 7/14/1999		juveniles		<input checked="" type="checkbox"/>
Stickleback	7/15/1960, 7/14/1999, 11/13/02				<input type="checkbox"/>
Fine Scale Suckers	7/15/1960				<input type="checkbox"/>
Ammocoetes (lamprey)	7/14/1999		juveniles		<input type="checkbox"/>

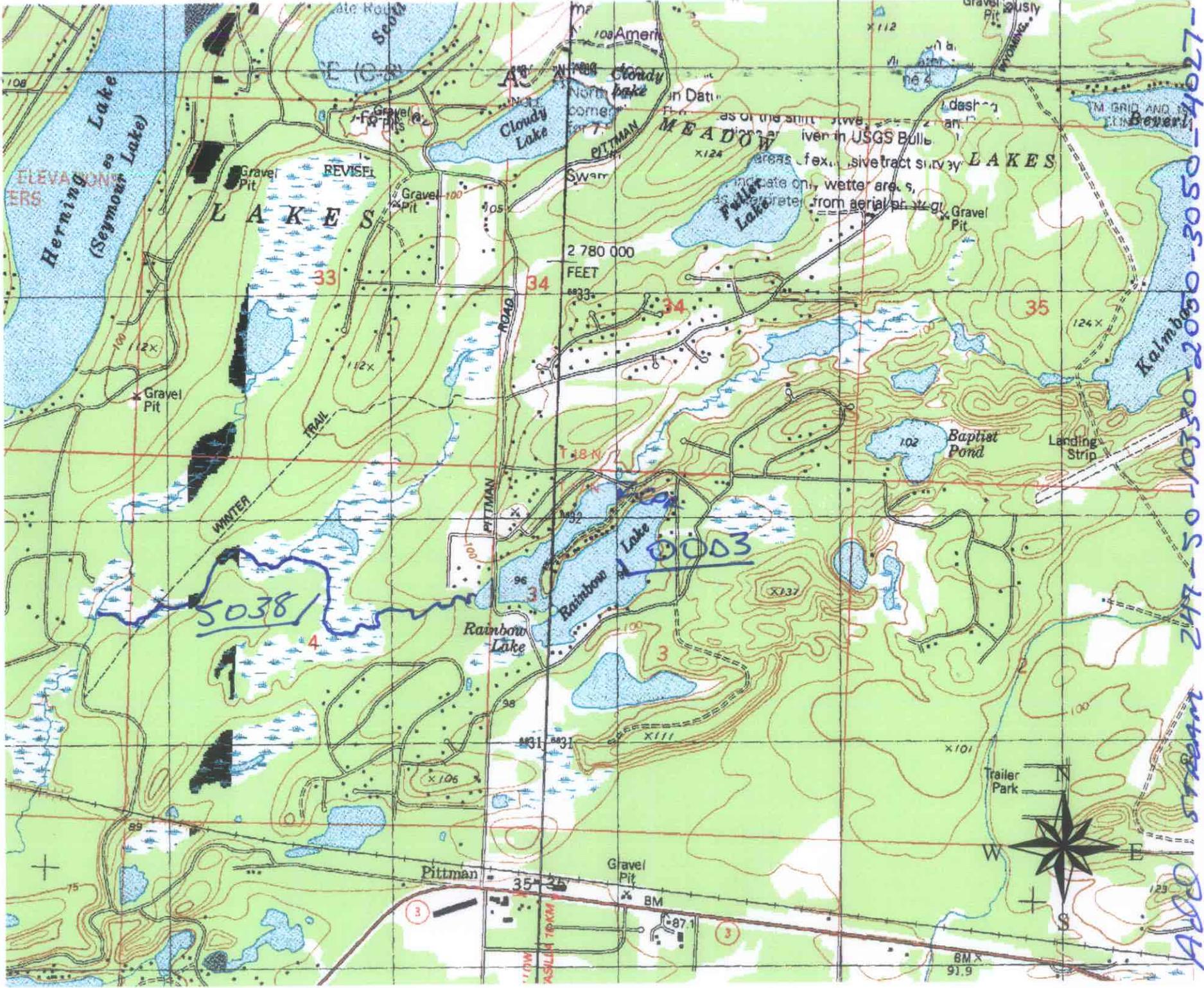
IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing 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: Please see attached photos and documentation.
Bob Lafferty said caught juveniles @ inlet ~~7/14/1999~~ 11/8/02
Dave Rutz said yes add it 11/12/02
ALASKA DEPT. OF FISH & GAME
NOV 12 2002
REGION II
HABITAT AND RESTORATION DIVISION

Name of Observer (please print): BETSY McCracken / Doug Hill / MATTHEW Lacroix
Signature: [Signature] Date: 9/3/99
Address: 333 RASPBERRY RD HABITAT DIVISION
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



ADD STREAM 247-50-10330-2050-3050-4027-
 5038 LAKE 5038-0003 w/ COR

Doug Hill

STATE OF ALASKA
DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH
LAKE SURVEY
LAKE SUMMARY
LAKE.....Rainbow Lake.....
T.17N.R.2W.Sec...3....
Long.....Lat.....

- 1. Other names of lake Railroad Lake
- 2. Accessibility (how reached, condition of roads) Turn right off Palmer-Willow rd about 50 yds before Pittman rd-There is a large sign with name elevation: _____
- 3. Outlet (immediate and main drainage) small stream at SW end of Lake permanency Is now dry, because of Dam size: _____ c.f.s.
- 4. Dam in outlet dirt constructed, with culvert distance from lake at shore height 10' effect on level 5' or more owner Not known
- 5. Inlets (name & permanency) NW end of lake a size: _____ c.f.s.
stream 6' x 4" flows into lake - permanent - gravel and stone bottom:
- 6. Pollution (kind, source, severity) None
- 7. Immediate shore (topography, soil, cover) Most of immediate shore has been cleared by har
- 8. Surrounding country (topography, soil, cover) Rolling spruce & Birch covered hills
- 9. Use (private, public, semi-private) _____ public fishing site _____
- 10. Approximate number of cottages 2 resorts _____ boat liveries _____
- 11. Fishing: general reputation Poor
history: Not known

intensity (heavy, medium, light) _____ reported by: Birdsell-Landowner
summer _____ winter _____
12. Other uses _____

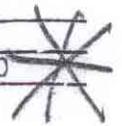
- 13. Area 34 shore development _____ maximum depth + 15'
- 14. Area of vegetation (acres) very little veg. percent shoal (less than 15 ft) _____
- 15. Slope at drop-off (gradual, steep) Water drops off from shore about 5 to 7 in most places
- 16. Bottom soil: shoal mud-stones in a very few places water mud
- 17. Color Brown Secchi disk (range) _____ turbidity _____
- 18. Cover (kind, abundance) A couple of very small catches of lilly pads
- 19. Vegetation (type, abundance) some potamogeton but for most part few aquatic plants
- 20. Food (abundance, dominant organisms): plankton _____
bottom: shoal _____ depths _____
vegetation _____
- 21. Spawning grounds (summarize observations and reports) None noted in lake - inlet
stream offers spawning grounds

22. Predators (kind and abundance) _____
23. Severity of fish losses _____ cause _____

24. Game fish RB - SS abundance _____ dominant size in catch _____
growth rate _____
2 sample nets produced 1 RB 1.7" and 1 ss 6.5"
5 suckers 17.7" to 19.8"
other fish Stickleback - and Finescale Suckers

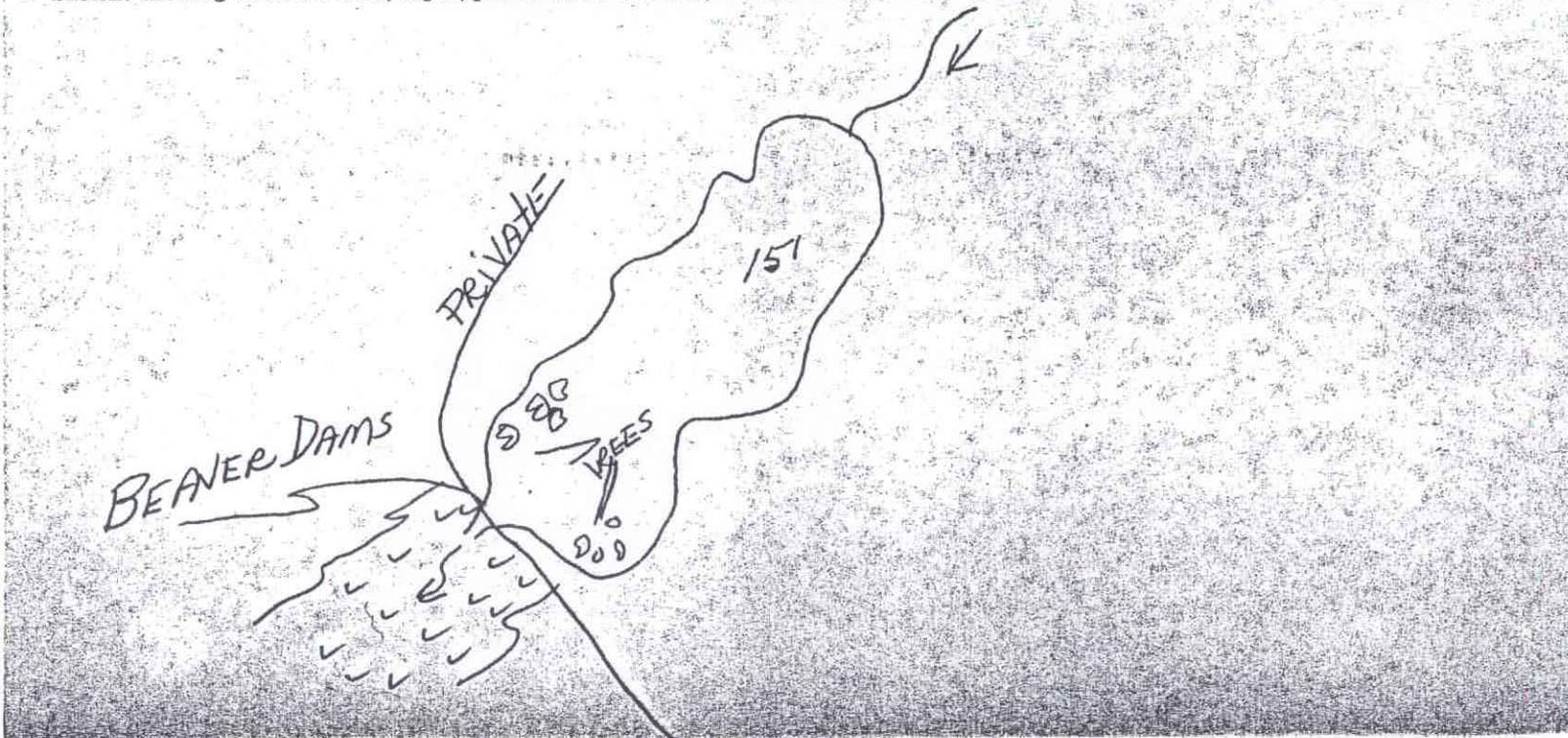
25. Continuations (use item numbers): The water in this lake is dark brown. The land-owners are clearing the land around the lake in order to make it sell faster.

26. Prepared by L.E. date of survey 7/15/60



Description of accessibility (how reached) turn right off Huston-Willow Road before Pittman turnoff onto gravel road, about one mile to lake.

Sketch: showing outline of lake, depth, prominent landmarks, inlets, outlet, weedbeds, public service site location, benchmark location, etc.



Dough Hill

Date of survey July 1940

ALASKA DEPARTMENT OF FISH AND GAME
Sport Fish Division **ANNA ET** Lake Survey Form

Lake Rainbow Lake (Railroad Lake) Sec. 3, Twp. 17 N, Rge. 2 W, Lat. _____ N., Long. _____ W.

Acreage 50 Max. Depth 15' Altitude 300'

Location Meadow Lakes area. Water Color (clear, silty) Brownish

Type of Bottom Silt-Mud--Eutrophic condition.

Inlets (name, size, permanency) Permanent inlet NW end of lake about 6' wide x 4" deep.

Benchmark (Description) _____

Outlet (size, immediate and main drainage) Small stream at SW end of lake about 5' wide x 6" deep.

Barriers Man made dam built by land developer.

Use (Private, public, semiprivate) Semi-private.

Public Access Site NO

Facilities (Campground, roadhouse, etc.) None

Native Fish Species Rainbow trout-Silver Salmon-Stickleback-Fine Scale Sucker.

Introduced Species None from ADF&G but land owner has introduced rainbow trout.

Spawning Grounds Spawning areas in inlet stream.

Fishing History Poor fishing

Other Uses Residential.

Fish Losses _____

Character and size of watershed Rolling, spruce and birch covered hills.

Remarks _____

DJ 2 p 36 + 38 SURVEY
DJ 6 p 340 CLOSED TO PUBLIC. ERROR ACCESS IS INCLUDED ON
PLATTED SUB DIVISION MAP.

(over)



STATE OF ALASKA
DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH

Dough Hill

LAKE AND STREAM SURVEY

NOTES AND REFERENCES

Lake or Stream. Rainbow - Railroad lake

T. 17. N. R. 2. W. Sec. 3...

9-15-60

Long.....Lat.....

HAVE TO check north
@ Palmer office

The landowners on this lake have built a dam across the outlet stream in order to raise the level of the lake. The dam is made of dirt and has a road across the top of it - 2 culverts at different levels have been placed in the dam. ~~It will be impossible for fish to get through these culverts from the down stream side because they are too high above the original stream bed. The fact that a silver salmon was caught in one of the sample nets could mean that salmon spawn in this drainage.~~

The culverts are blocked now in order to raise the level of the lake - thus the outlet stream has no water in it.

By damming the stream the surface area of the lake as been approx. ^{draming} doubled.

Meadow Ck - color

arm
Engel

Pitman Rd - one culvert there. Its okay
State/DOT

TEST-NETTING SUMMARIES

FG-53

1960

Water: Rainbow Lake
 Location: T 18 N; R 2 W; Sec. 32
 Dates: 7/15/60 - 7/16/60
 Total Hours Fished: 47

Gear Used: 125' Exp. Gill Net
 Temperature, Air: _____
 Water: 69.5 F
 Weather: Cloudy and Rain

Pike in Lake "Dave Rutz" 2/22/01

No.	Species	Length Range-Ave.		Weight Range-Ave.		Total Weight	Freq.	c/o Comp.
1	RB	10.7		.49		.49	.021	14.3
1	SS	6.5		.13		.13	.021	14.3
5	Sucker	17.7 - 19.8	18.6			.	.106	71.4
7								

REMARKS: (Sketch or describe location of set(s))

Sets made in sout end and middle of east shore.

Submitted by R.E.A.

TEST NET EVALUATION RECORD

LAKE

RAINBOW

LOCATION

MEADOW LAKES

Year	Species	Age Class	No. No.	Ln. Range in mm	Ave.	Wt. Range in pounds	Ave.	Stocking History			Total Net Hrs.	Catch/Net Hr.	% Cat
								Number	No./lb	Date			
7/15/60	RB	?	1	272		0.49		WILD			47	0.02	1
	SS	?	1	165		0.13		W+LD				0.02	1
	LNS	Mixed	5	449-503	472			WILD				0.11	7%
5/4/61	RT	?	9	210-482	346.2			wild			44	.2	31
	LNS		20					wild			44	.45	69

Rainbow LC - 8-7-91

Gillnets

RT lengths (mm)

210

288

307

324

338

357

383

427

482

SPORT FISH

Russ Budsell - 376-3255
from Rainier Lodge called & wants
to know where he can get what
ever he needs to clean out Rainier
Lake, as he is going to restock it
next year. Also wants to know if
Fire Lake Hatchery has any
fish they will sell to the public

Called this fellow on 7-22-68
gave him approx cost of rotenone
Explained pros & cons of operation
Told him we'd try to get out there
within the next month or so and
talk to him personally

J. D. H.

Rocky
15 min

over.

Checked out lake + found no
chance to control either
inlet or outlet. Recommended
he drop rehab plans but
offered to help if he
plans to go ahead.

Lake is separately not
suitable for manage-
ment

Russ Redick
8/6/68

Law Offices

RICE, HOPPNER, HEDLAND, FLEISCHER & INGRAHAM

1016 WEST 6TH AVENUE, SUITE 400
ANCHORAGE, ALASKA 99501
(907) 279-5528

FAIRBANKS OFFICE
330 WENDELL STREET (99701)
(907) 452-1201

Don't Hill
Engle
T.A.
DLU
act

JULIAN C. RICE
LLOYD I. HOPPNER
JOHN S. HEDLAND
HUGH W. FLEISCHER
MILLARD F. INGRAHAM
SAUL R. FRIEDMAN
PATRICK T. BROWN
LINDA L. WALTON
MARK I. WOOD
NIESJE J. STEINKRUGER
ROGER BRUNNER
JAMES T. BRENNAN
JANALEE R. STRANDBERG
EDWARD R. NOLDE

April 17, 1979

CHARLES J. CLASBY
OF COUNSEL
FISH & GAME

State of Alaska
Department of Fish and Game
333 Raspberry Rd.
Anchorage, Alaska 99503

APR 19 1979

HABITAT
REGIONAL OFFICE

ATTENTION: Mr. Bruce M. Barrett
Projects Review Coordinator
Habitat Protection Section

RE: Impoundment Structure, Big Lake Water Shed: ADL 67311

Dear Mr. Barrett:

As you know, the undersigned represents a group of homeowners residing around Rainbow Lake, downstream from the above-referenced impoundment structure erected by Mr. Robert Rogers. As you recall, I expended much effort last fall to persuade you and your department to enforce the Department's stipulation that a minimum of 6 inches water depth be maintained in the culvert in Rogers' dam at all times. After a great amount of delay by Mr. Rogers, you subsequently advised him that he would have to comply with updated stipulations, which again included the maintenance at all times of the 6 inch water depth in the culvert which feeds the fish ladder which allows for fish passage through the dam.

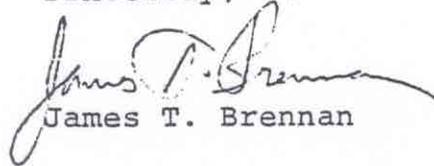
I visited the dam site on Saturday, April 15, 1979, and discovered that, though water is free flowing in the area (a small amount is percolating under or around the dam), the fish ladder is again bone dry, as it was nearly all of last year. This information can be confirmed by pictures in my possession as well as by Mr. Lawrence Brys, Water Officer with the Department of Natural Resources, who also inspected the site on April 12, 1979.

Again, it is absolutely clear that the dam is in violation of A.S. 16.05.840. Given the repeated failure of the dam to continually pass sufficient water to allow for passage

State of Alaska
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April 17, 1979

of fish, especially in light of the fact that the stream is specified as one which is important for the spanning or migration of anaeromous fish, I request that you immediately take action to require that the impoundment structure be dismantled.

Sincerely,



James T. Brennan

JTB/ljp

cc: Ron Skoog

AL/ DEPARTMENT OF FISH AND WILDLIFE
DIVISION OF SPORT FISH
LAKE SURVEY SUMMARY

LAKE Rainbow (612)

MAP REF. ANCH C-7 T 17N R 2W S 3 LAT. _____ LONG. _____

LOC. Meadow Lakes area SURF. ELEV. 300'

1. SURF. ACRES 50 MAX. DEPTH 15' AVG. DEPTH Not computed ACRE FT. Not computed
SHOAL AREA _____ WATER COLOR brownish SECCHI READING _____
AQUATIC VEGETATION _____

2. FISH SPECIES: NATIVE RB, SS, SB, LNS INTRODUCED None RB by landowner

3. FISHING HISTORY Poor fishing

4. INVERTEBRATES _____

5. INLETS Inlet NW end of lake DISCHARGE Unknown cfs
DISCHARGE _____ cfs
DISCHARGE _____ cfs
BARRIERS None

6. OUTLETS Small outlet at SW end of lake DISCHARGE Unknown cfs
DISCHARGE _____ cfs
BARRIERS Manmade dam with culvert

7. SPAWNING AREAS Areas in inlet stream

WATERSHED TYPE Spruce and Birch DRAINAGE AREA Unknown ACRES

9. ACCESSIBILITY Turn right off Houston Willow Road at Rainbow Lodge, one mile to lake.

10. ACCESS STATUS Private, ROW Subdivison

11. USE SITE Cabins (2+) FACILITIES None

12. OTHER USE Residential

13. POLLUTION None

14. REMARKS _____

BY Larry Engel

DATE 7/15/60

Lafferty, Robert

From: Lafferty, Robert
Sent: Wednesday, July 14, 1999 4:47 PM
To: Whitmore, Craig D.
Cc: Sandone, Gene J.; Rutz, David Steven
Subject: Rainbow and Beverly lakes

Craig,

The following is a summary regarding the issues from your previous email about Rainbow and Beverly lakes.

Beverly Lake

There is a beaver dam located at the outlet of the small lake downstream of Beverly Lake. On July 14, 1999 I visited the site and took some photographs of the stream, lake shore and the beaver dam. These photographs will be placed into the Lake File and labeled with the July 14, 1999 date. The outlet stream is very small and with this year's below normal rainfall this stream has become very shallow. To complicate the low water conditions a beaver dam at the outlet is controlling the lake level. The shoreline residents may voice some concern by adjusting lake level. It appears to me that someone pulled the beaver dam this spring because a great deal of gravel and debris was present downstream of the beaver dam. I removed most of the debris and deepen the stream channel below the beaver dam to allow salmon passage. With the current water conditions, I would classify the beaver dam as barrier to sockeye salmon passage. The length and height of the beaver dam would make it very difficult for sockeye salmon to jump. I would suggest that we open the beaver dam a couple of times during the spawning migration to allow sockeye salmon to reach Beverly Lake. This would be a temporary solution to the problem, because the beaver lodge is about 20 yards from the lake outlet and could be easily repaired in few hours. Perhaps we can coordinate with Wildlife Div. to see if someone would trap and remove these beavers this next trapping season.

I was not able to contacted Shirley at 343-6748 but I did leave a voice mail message at this phone number.

Rainbow Lake

Four minnow traps baited with salmon roe at the inlet of Rainbow Lake on July 14, 1999. These minnow traps were allowed to fish for a couple of hours. The catch was fairly small, several juvenile coho salmon and bunch of sticklebacks and three juvenile lamprey (ammocoetes) were captured. I suspect that these are Pacific lampreys that are rearing in Rainbow Lake. Investigating the outlet structures I found two culverts that were partially blocked, with the current water conditions, it would be difficult for salmon to enter Rainbow Lake, but a lamprey could make it through the culverts.

I contacted Sam Halterman 373-6804 and explained our findings and a little bit of the lamprey life history.

Meadow Lakes Area - Minnow Trapping - 2001

Date - Set Time	Date - Pull Time	Trap	Catch	Count	Location
4/5/01 - 1010	4/6/01 - 0900	1	coho	2	Cloudy Lake - 30 yards east of outlet stream culvert
4/5/01 - 1010	4/6/01 - 0900	1	stickleback	10	Cloudy Lake - 30 yards east of outlet stream culvert
4/5/01 - 1015	4/6/01 - 0905	2	stickleback	30	Cloudy Lake - 20 yards east of outlet stream culvert
4/5/01 - 1020	4/6/01 - 0909	3	stickleback	30	Cloudy Lake - 10 yards east of outlet stream culvert
4/5/01 - 1010	4/6/01 - 0915	4	rainbow	7	Cloudy Lake outlet stream - 5 yards below culvert outlet
4/5/01 - 1010	4/6/01 - 0915	4	stickleback	6	Cloudy Lake outlet stream - 5 yards below culvert outlet
4/5/01 - 1015	4/6/01 - 0919	5	rainbow	4	Cloudy Lake outlet stream - 25 yards below culvert outlet
4/5/01 - 1015	4/6/01 - 0919	5	stickleback	10	Cloudy Lake outlet stream - 25 yards below culvert outlet
4/5/01 - 1020	4/6/01 - 0926	6	rainbow	2	Cloudy Lake outlet stream - 5 yards below second road below lake outlet culvert
4/5/01 - 1020	4/6/01 - 0926	6	stickleback	8	Cloudy Lake outlet stream - 5 yards below second road below lake outlet culvert
4/11/01 - 1315	4/12/01 - 1350	1	stickleback	40	Beverly Lake - 75 yards SE outlet stream
4/11/01 - 1320	4/12/01 - 1354	2	stickleback	40	Beverly Lake - 100 yards SE outlet stream
4/11/01 - 1325	4/12/01 - 1359	3	stickleback	40	Beverly Lake - 150 yards SE outlet stream
4/11/01 - 1335	4/12/01 - 1400	4	stickleback	20	Beverly Lake - outlet stream 75' below weir/dike sits
4/11/01 - 1420	4/12/01 - 1425	1		0	Rainbow Lake - feeder stream - 100' upstream of Lakeview Road
4/11/01 - 1433	4/12/01 - 1430	2	sucker	3	Rainbow Lake - 100 yards from Lakeview Road culvert/fish ladder
4/11/01 - 1433	4/12/01 - 1430	2	stickleback	40	Rainbow Lake - 100 yards from Lakeview Road culvert/fish ladder
4/11/01 - 1508	4/12/01 - 1445	3	rainbow	6	Rainbow Lake outlet stream - 100' below base of lake outlet fish ladder
4/11/01 - 1508	4/12/01 - 1445	3	sculpin	1	Rainbow Lake outlet stream - 100' below base of lake outlet fish ladder
4/11/01 - 1508	4/12/01 - 1445	3	stickleback	30	Rainbow Lake outlet stream - 100' below base of lake outlet fish ladder
4/11/01 - 1500	4/12/01 - 1450	4	stickleback	5	Rainbow Lake - Pittman Road Culvert outlet
4/11/01 - 1540	4/16/01 - 1800	1		0	Fuller Lake - 20 yards east of west end
4/11/01 - 1546	4/16/01 - 1806	2		0	Fuller Lake - 50 yards east of west end
4/11/01 - 1552	4/16/01 - 1815	3	stickleback	35	Fuller Lake - 100 yards east of west end
4/12/01 - 1100	4/13/01 - 0815	1	stickleback	60	Lake between Beverly Lake and Rainbow Lake - northeast
4/12/01 - 1110	4/13/01 - 0818	2	stickleback	30	Lake between Beverly Lake and Rainbow Lake - east central
4/12/01 - 1115	4/13/01 - 0821	3	stickleback	10	Lake between Beverly Lake and Rainbow Lake - southeast
4/12/01 - 1140	4/13/01 - 0840	1	predacious diving bettle	1	Island Lake - 10 yards south of north end
4/12/01 - 1145	4/13/01 - 0844	2		0	Island Lake - 25 yards south of north end
4/12/01 - 1540	4/13/01 - 0859	1	stickleback	10	Scott Lake - 20 yards northwest of outlet stream mouth
4/12/01 - 1543	4/13/01 - 0904	2	stickleback	25	Scott Lake - 50 yards northwest of outlet stream mouth
4/12/01 - 1546	4/13/01 - 0908	3	stickleback	30	Scott Lake - 50Yards northeast of outlet stream mouth

Doug Hill

From: MICHAEL.JANECEK [mjanecek@matnet.com]
Sent: Friday, February 23, 2001 4:21 PM
To: doug_hill@fishgame.state.ak.us
Subject: Re:

Doug

Sorry for the delay of response from me...been a busy guy lately. This is a very exciting project, and I am interested in helping in any way that I can.

History of Rainbow Lake is kind of muddy at best, but here is what I know. I've lived here on Rainbow lake for 27 years. During that time I have no knowledge of salmon in the lake. My mother and I purchased a small cabin and a small lot back in 1963 for family recreation. I was a teenager at the time and I remember seeing surface disturbances that I thought were Red Salmon. I talked to some neighbors and they confirmed my thinking, however I never saw or caught one. A man named Scatter Edwards who was the resident fishing expert swore on a stack of bibles that Reds used to run into the lake. A nice population of Rainbow Trout live in the lake and do some migrating through the culvert on Karen st. I'm sorry to say that this site gets quite a bit of fishing pressure in the spring when the Rainbows are spawning. I think this will eventually be the end of Rainbows in this lake. I see Rainbows rising all summer and I do see some big fish. They seem to be hard to catch later in the summer. I personally do not fish for Rainbows, but I do keep an eye on fisherman and do ask questions when I can. There has been rumor of a big Pike caught two or three years ago, but I believe that this is an effort to get someone's picture in a fishing magazine. Once again I have never seen or caught a Pike in Rainbow lake.

I have speculated in the past that the output of Rainbow Lake ends up in the Meadow Creek system. Hence, maybe the Reds stopped coming up to the Lake when The Meadow Creek hatchery began it's work.

I would volunteer to help track that down, and I would love to see Reds back in Rainbow Lake if they really do belong here. I'm hoping to join you at Meadow Lake School on March 1.

Regards,
Michael Janecek



overflow pipe

Outlet off of Pittmann Rd.

6/26/02



Karen Road, Wasilla

Rainbow Lake

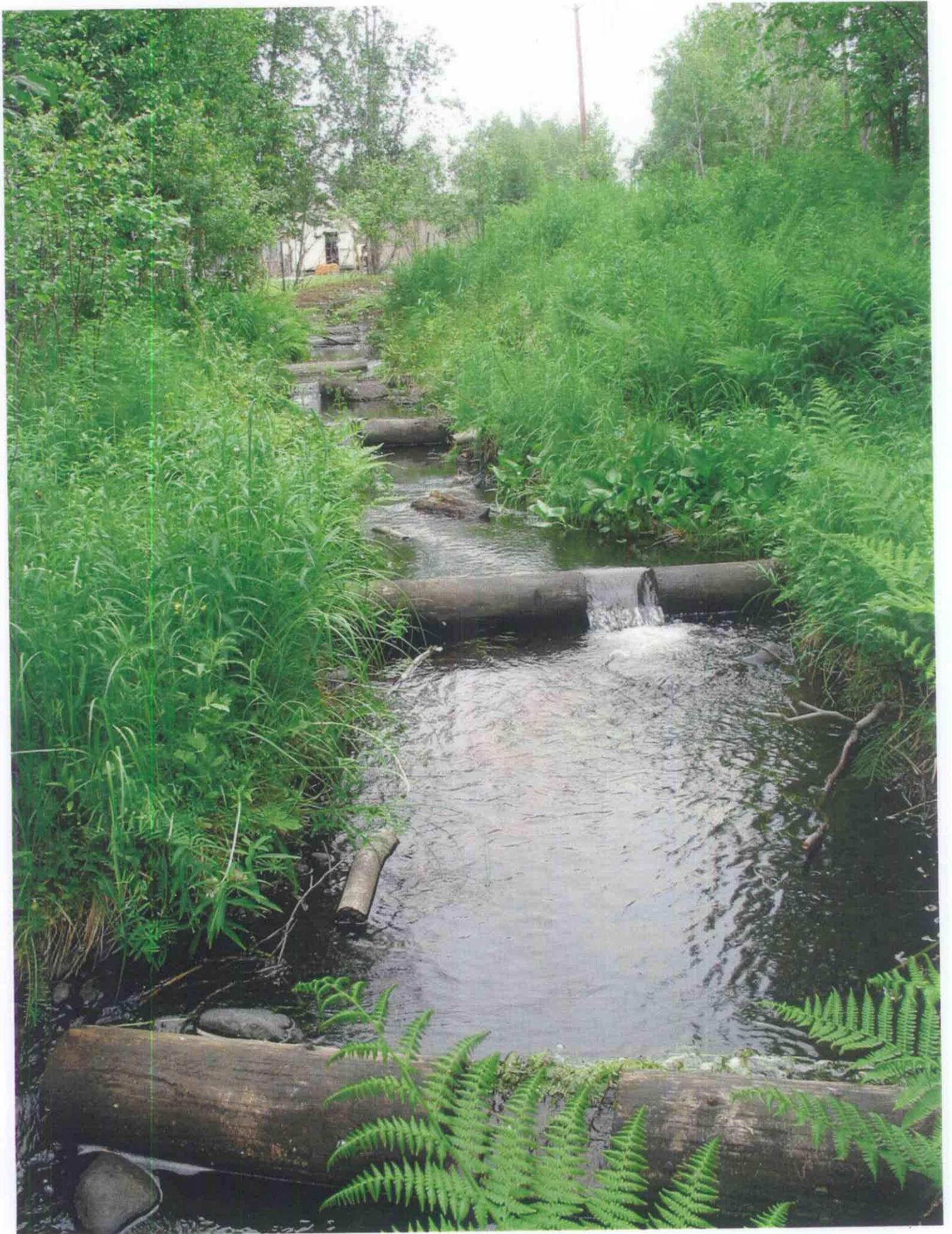
6/25/02



Karen Road, Wasilla

Rainbow Lake

6/25/02



6/25/02



PITMAN ROAD
WASILLA

RAINBOW LAKE

6/25/2002

6/25/02



Outlet Stream

Rainbow Lake

Pittmann Rd Area.