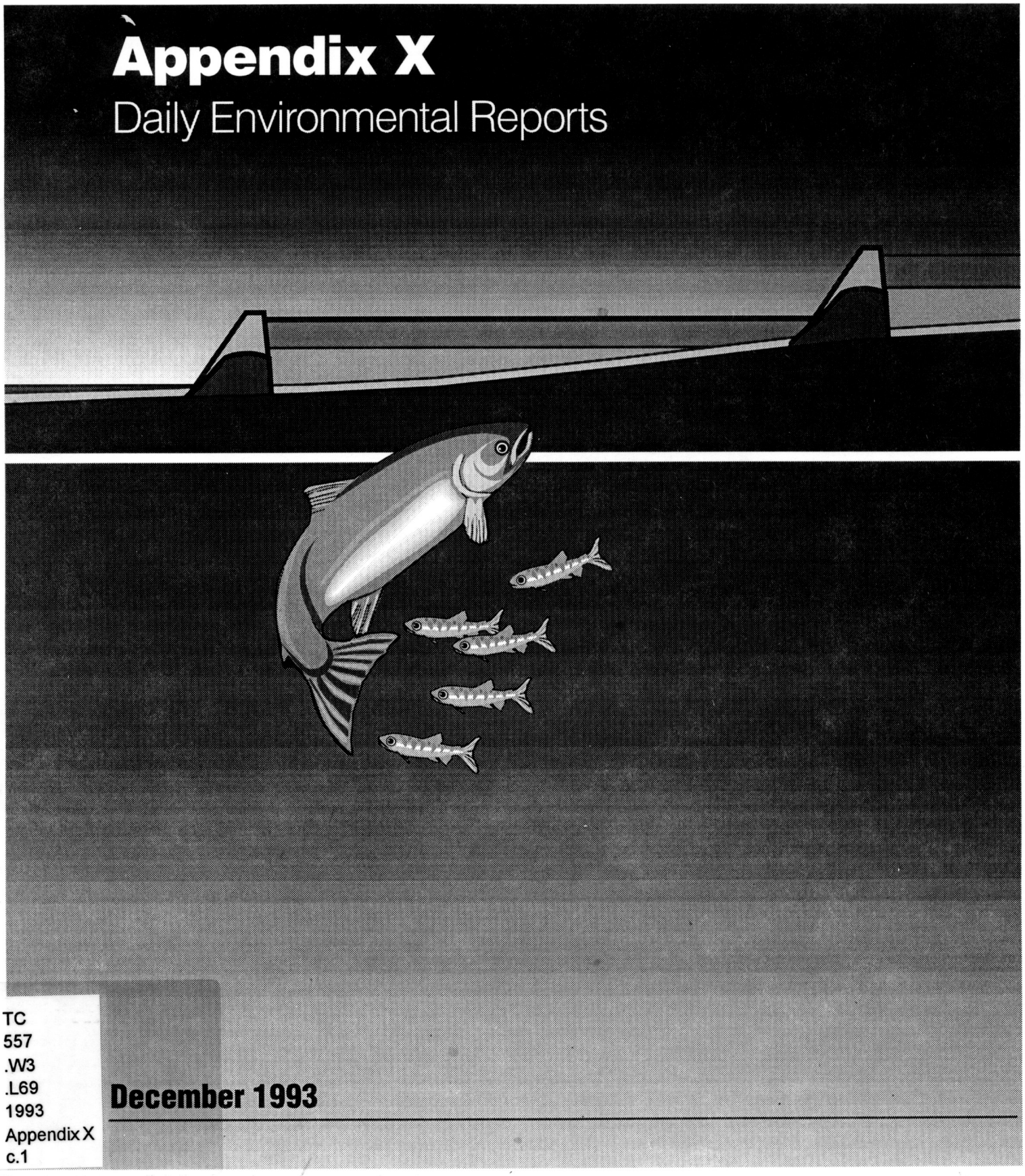
1992 Reservoir Drawdown Test

Lower Granite and Little Goose Dams

US Army Corps
of Engineers
Walla Walla District

Appendix X

Daily Environmental Reports



TC
557
.W3
.L69
1993
Appendix X
c.1

December 1993

APPENDIX X

DAILY ENVIRONMENTAL REPORTS

1992 Reservoir Drawdown Test

Lower Granite and Little Goose Dams

Sarah J. Wik
Walla Walla District
U.S. Army Corps of Engineers

APPENDIX X

1992 RESERVOIR DRAWDOWN TEST
LOWER GRANITE AND LITTLE GOOSE DAMS

DAILY ENVIRONMENTAL REPORTS

This appendix contains the daily reports that were prepared by the environmental coordinating office for the 1992 reservoir drawdown test. These reports were brief summaries intended to keep key parties informed of major events during the test. Along with the short reports, the fax header sheets were left attached to document who received the daily reports (and include various pertinent and/or humorous messages, documenting the stress of this particular situation!). The following agencies (individuals) received these daily reports:

- Corps of Engineers, Walla Walla District, Planning Division (Mike Mason or Matt Laws)
- Corps of Engineers, North Pacific Division, Planning/Engineering Division (Jim Athearn (JA))
- National Marine Fisheries Service, Coastal Zone and Estuarine Studies Division (Cleve Steward)
- National Marine Fisheries Service, Environmental Services Division (Garth Griffin)
- Fish Passage Center - representing the Columbia Basin Fish and Wildlife Authority and all associated agencies (Larry Basham)
- Northwest Power Planning Council (Jim Ruff)

file:sjsitrp4

LOWER GRANITE-LITTLE GOOSE RESERVOIR DRAWDOWN

DAILY SITUATION REPORT

ENVIRONMENTAL

DATE: 4 March 1992

RESERVOIR ELEVATIONS AS OF 0800:

LOWER GRANITE FOREBAY - 727.18 **LOWER GRANITE TAILRACE -** 633.6

AVERAGE INFLOW OVER LAST 24 HOURS: 33.6 (forecast of 25.9 by 10th)

DAILY FISH COUNT: 38 (was 34 on 1 March, 43 on 2 March)

MONITORING ACTIVITIES ACCOMPLISHED IN LAST 24 HOURS, AND RESULTS:

1. Lower Granite gatewell dipping - 9 gatewells (units 3, 4 and 5):

17 O. nerka (i.e. - kokanee/sockeye = sockanee?)
42 chinook
23 hatchery steelhead
38 wild steelhead (majority were **NOT** smolted)
6 adult steelhead
2 carp
2 squawfish
several miscellaneous

2. Began benthic monitoring. Mussel beds have been exposed. Idaho Dept. of Health and Welfare has issued warning to local folks to not eat them...

3. Survey in upper Lower Granite pool for fall chinook redds (results not in yet, although since I wasn't called last night, I expect nothing was seen).

4. Wildlife survey. Nothing to report.

5. Archaeological monitoring initiated. Nothing to report.

MONITORING ACTIVITIES PLANNED TODAY:

1. Continue benthic, fall chinook, wildlife and archaeological monitoring.

2. Sturgeon and squawfish monitoring efforts begin tonight.

OTHER:

No major problems noted; minor sloughing of embankments appears to have stabilized. Very localized increases in turbidity. Some juvenile resident fish have been lost in certain areas. Today, Washington Department of Wildlife is beginning rescue efforts for fish trapped in ponds behind the embankments on Lower Granite reservoir. No species composition for the ponds at this point in time. Some fish kill is anticipated due to the inability of personnel to retrieve fish from those ponds containing thick layers of mud. Not all ponds will drain completely however, so the extent of fish loss is not predictable.

If you have any questions, don't hesitate to call.

FROM: Sarah Wik
509-843-3364
Fax: 509-843-1131

Corps of Engineers
Lower Granite
Drawdown Office - (@ the Juvenile Fish Facility)
Environmental Coordination

TO Larry Basham
Phone
Fax # 503 230-7559
No of Pages 2 + header

FROM Sarah Wik
phone 509-843-3364
fax 509-843-1131

Date 4 Mar 92
Time 1100

Message:

Corps of Engineers

Lower Granite

Drawdown Office - (@ the Juvenile Fish Facility)

Environmental Coordination

TO Cleve Steward

Fax # _____

Phone _____

No of Pages 2 + header

FROM Sarah Wik

phone 509-843-3364

fax 509-843-1131

Date 4 March

Time 1056

Message:

Bennett's data attached + daily envol. visit rep

Corps of Engineers
Lower Granite
Drawdown Office - (@ the Juvenile Fish Facility)
Environmental Coordination

TO JA
Fax #
Phone
No of Pages

FROM Sarah Wik
phone 509-843-3364
fax 509-843-1131

Date 4 Mar
Time 1106

Message:

= daily sit -

file:sjsitrp5

LOWER GRANITE-LITTLE GOOSE RESERVOIR DRAWDOWN

DAILY SITUATION REPORT

ENVIRONMENTAL

DATE: 5 March 1992

RESERVOIR ELEVATIONS AS OF 0800:

LOWER GRANITE FOREBAY - 725.18 **LOWER GRANITE TAILRACE -** 634.6

AVERAGE INFLOW OVER LAST 24 HOURS: 29.9, discharge 39.6

DAILY ADULT FISH COUNT: 14 steelhead. Emergency system apparently functioning, although spot-checks have not resulted in seeing fish pass into the pipe (turbulence may prevent such an observation anyway...). Head on ladder weirs is less than 1 foot, but the rest of the collection system is functioning normally given the low tailwater elevation (yesterday was at very bottom - 633) - i.e. south shore and collection channel okay, north powerhouse and north shore entrance depths lower than desired. (We will try to check again today to see how it looks now that the tailrace is rising.)

TURBINE OPERATION: Two units (3 and 4) running steady. Third unit (5) on-line as needed to draft reservoir. No problems noted during testing efforts.

MONITORING ACTIVITIES ACCOMPLISHED IN LAST 24 HOURS, AND RESULTS:

1. Lower Granite reservoir sturgeon monitoring.

2. Squawfish tagging initiated.

3. Embankment ponds were checked for trapped fish. At this point, fish appear to be exiting ponds with the water flow. No rescue efforts needed by Washington Dept. of Wildlife as of yet - they will continue to monitor and we are in daily contact.

4. Localized increases in turbidity. Rain from several days ago resulted in increased turbidity that has now passed through the system. (Equipment troubles prevented documenting this phenomenon.)

MONITORING ACTIVITIES PLANNED TODAY:

1. Lower Granite gatewell dipping.

2. Continue wildlife, archaeological, resident fish, and sqauwfish, and turbidity monitoring activities.

OTHER:

Slumping of embankments occurring in Port of Wilma area. Other "minor" non-Federal problems that are being evaluated. Will keep you posted.

If you have any questions, don't hesitate to call.

FROM: Sarah Wik
509-843-3364
Fax: 509-843-1131

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO Larry Basham

Fax # 230-

Phone

# of pgs (incl. header) 3

FROM: Sarah Wik

phone: 509-843-3364

fax: 509-843-1131

Date 5 Mar 92

Time 1700

Message:

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO Garth G. Fax # 230-5435

Phone _____ # of pgs (incl. header) 3

FROM: Sarah Wik Date 5 Mar 92

phone: 509-843-3364

fax: 509-843-1131 Time 1015

Message:

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO Mike + ER

Fax # 6943

Phone

# of pgs (incl. header) 3

FROM: Sarah Wik
phone: 509-843-3364
fax: 509-843-1131

Date 5 Mar 97

Time 1015

Message:

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO JA

Fax # 503-326-7328

Phone

# of pgs (incl. header) 3

FROM: Sarah Wik

phone: 509-843-3364

fax: 509-843-1131

Date 5Mar92

Time 1015

Message:

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO Cleve Steward

Fax # 206 553-4313

Phone 206-553-4529

# of pgs (incl. header) 3

FROM: Sarah Wik

phone: 509-843-3364

fax: 509-843-1131

Date 5 Mar 92

Time 1015

Message:

file:sjsitrp6

LOWER GRANITE-LITTLE GOOSE RESERVOIR DRAWDOWN

DAILY SITUATION REPORT

ENVIRONMENTAL

DATE: 6 March 1992

RESERVOIR ELEVATIONS AS OF 0800:

LOWER GRANITE FOREBAY - 723.17 **LOWER GRANITE TAILRACE -** 634.43

AVERAGE INFLOW OVER LAST 24 HOURS: 31.2, discharge 40.9. No major changes predicted over the weekend.

DAILY ADULT FISH COUNT: 40 steelhead.

TURBINE OPERATION: Two units (3 and 4) running steady. Third unit (5) on-line as needed to draft reservoir. No problems noted during testing efforts.

MONITORING ACTIVITIES ACCOMPLISHED IN LAST 24 HOURS, AND RESULTS:

1. Lower Granite reservoir sturgeon, squawfish, embankment pond, turbidity, wildlife, archaeological monitoring efforts continued.

2. Gatewell dipping: 11 O. nerka, 12 chinook, 28 wild sthd, 5 hatch. sthd, 6 adult sthd., 29 miscellaneous non-salmonids.

MONITORING ACTIVITIES PLANNED TODAY:

1. Continue wildlife, archaeological, resident fish, and sqauw-fish, and turbidity monitoring activities.

2. Washington Dept. of Wildlife will check ponds again today and coordinate with Camas Prairie Railroad should any pumping efforts be needed.

OTHER:

No major changes from yesterday.

If you have any questions, don't hesitate to call.

FROM: Sarah Wik
509-843-3364
Fax: 509-843-1131

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO Garth Griffin

Fax # 230-5435

Phone

# of pgs (incl. header) 2

FROM: Sarah Wik

phone: 509-843-3364

fax: 509-843-1131

Date 6 Mar 92

Time 0900

Message:

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO Lamy Basham

Fax # 230-7559

Phone

# of pgs (incl. header) 2

FROM: Sarah Wik

phone: 509-843-3364

fax: 509-843-1131

Date 6 Mar 92

Time 0900

Message:

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO Mike Mason

Fax # 6943

Phone

# of pgs (incl. header) 2

FROM: Sarah Wik

phone: 509-843-3364

fax: 509-843-1131

Date 6 Mar 92

Time 0900

Message:

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO JA

Fax #

Phone

# of pgs (incl. header) 2

FROM: Sarah Wik

phone: 509-843-3364

fax: 509-843-1131

Date 6 Mar 92

Time 0900

Message:

FAX!

Corps of Engineers

Reservoir Drawdown Test Environmental Coordination Office

Lower Granite Dam Juvenile Fish Facility

TO Cleve Steward

Fax # 206 553-4313

Phone _____

# of pgs (incl. header) 2

FROM: Sarah Wik

phone: 509-843-3364

fax: 509-843-1131

Date 6 Mar 92

Time 0900

Message:

Argh! - We need you here! How about Bob Pearce?

file:sjsitrp7

LOWER GRANITE-LITTLE GOOSE RESERVOIR DRAWDOWN

DAILY SITUATION REPORT

ENVIRONMENTAL

DATE: 7 March 1992

RESERVOIR ELEVATIONS AS OF 0800:

LOWER GRANITE FOREBAY - 721.20 **LOWER GRANITE TAILRACE -** 634.64

AVERAGE INFLOW OVER LAST 24 HOURS: 31.67, discharge 39.1. No major changes predicted over the weekend.

DAILY ADULT FISH COUNT: 90 steelhead. No fish have been observed entering the pipe, however, there is no indication that they are "stacking up" within the ladder.

TURBINE OPERATION: Two units (3 and 4) running steady. Third unit (5) on-line as needed to draft reservoir. No problems noted during testing efforts.

MONITORING ACTIVITIES ACCOMPLISHED IN LAST 24 HOURS, AND RESULTS:

1. Lower Granite reservoir sturgeon, squawfish, embankment pond, turbidity, wildlife, archaeological monitoring efforts continued.

MONITORING ACTIVITIES PLANNED TODAY:

1. Continue archaeological, velocity, and turbidity monitoring activities.

2. One pond outside of Clarkston may need to be pumped. Corps personnel are going to determine pond depth this morning and a decision will be made after that. I will coordinate with WDW as necessary.

3. Weather conditions (rain and fog) prevented helicopter survey this morning, so patrols of reservoir are taking place by vehicle. We do not have any more information at this time regarding potential problems.

OTHER:

No major changes from yesterday. Things are pretty quiet out here. We are exploring possible modifications to the test design at the end, and will keep in touch regarding these (changes are proposed by Idaho and also as a result of the test drawdown group meeting yesterday). I will try to fax to all the current plans, and suggested changes within the next couple of days.

If you have any questions, don't hesitate to call.

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Larry Basham

FAX #: 503-230-7559

PHONE: 503-230-4287

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 7 Mar 92

TIME 1006

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Mike Mason + ER + PL FAX #: 509-522-6943

PHONE: 509-522-6624 # OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 7 Mar 92

TIME 1008

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Garth Griffin

PHONE: 503-230-5435

FAX #: 503-230-5430

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 7 Mar 92

TIME 1006

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO JA

FAX # 503 326 7328

PHONE

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 7 Mar 92

TIME 1006

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Cleve Steward

PHONE: 206-553-4529

FAX #: 206-553-4313

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 7 Mar 92

TIME 1006

MESSAGE:

file:sjsitrp8

LOWER GRANITE-LITTLE GOOSE RESERVOIR DRAWDOWN

DAILY SITUATION REPORT

ENVIRONMENTAL

DATE: 8 March 1992

RESERVOIR ELEVATIONS AS OF 0800:

LOWER GRANITE FOREBAY - 719.18 **LOWER GRANITE TAILRACE -** 633.99

AVERAGE INFLOW OVER LAST 24 HOURS: not calculated yet; discharge 36.9. Forecast of 31 kcfs for tomorrow.

DAILY ADULT FISH COUNT: 202 steelhead. Still no fish have been observed entering the system, but no problems are indicated. The top of the half-pipe section is now visible.

TURBINE OPERATION: Two units (3 and 4) running steady. Third unit (5) on-line as needed to draft reservoir. No significant problems noted during testing efforts.

MONITORING ACTIVITIES ACCOMPLISHED IN LAST 24 HOURS, AND RESULTS:

1. Archaeological monitoring.

MONITORING ACTIVITIES PLANNED TODAY:

1. Continue archaeological monitoring activities.

2. Weather conditions (rain and fog) prevented helicopter survey this morning, so patrols of reservoir are taking place by vehicle and boat. We do not have any more information at this time regarding potential problems.

OTHER:

We began pumping the west Evans pond outside of Clarkston yesterday. WDW is monitoring the situation and will rescue fish as needed.

If you have any questions, don't hesitate to call.

FROM: Sarah Wik
509-843-3364
Fax: 509-843-1131

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Jim Athearn

FAX #: 503-326-7328

PHONE: 503-326-2835

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 8 Mar 92

TIME 0950

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Larry Basham

PHONE: 503-230-4287

FAX #: 503-230-7559

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 8 Mar 92

TIME 0900

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Cleve Steward

FAX #: 206-553-4313

PHONE: 206-553-4529

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 9 Mar 92

TIME 0900

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Garth Griffin

PHONE: 503-230-5435

FAX #: 503-230-5430

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 8 Mar 92

TIME 0900

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Mike Mason

FAX #: 509-522-6943

PHONE: 509-522-6624

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 8 Mar 92

TIME 0900

MESSAGE:

file:sjsitrp9

LOWER GRANITE-LITTLE GOOSE RESERVOIR DRAWDOWN

DAILY SITUATION REPORT

ENVIRONMENTAL

DATE: 9 March 1992

RESERVOIR ELEVATIONS AS OF 0800:

LOWER GRANITE FOREBAY - 717.18 **LOWER GRANITE TAILRACE -** 634.62

AVERAGE INFLOW OVER LAST 24 HOURS: 30.24; ave. discharge 36.1.

DAILY ADULT FISH COUNT: 164 steelhead.

TURBINE OPERATION: Two units (3 and 4) running steady. Third unit (5) on-line as needed to draft reservoir and for testing. No significant problems noted during testing efforts.

MONITORING ACTIVITIES ACCOMPLISHED IN LAST 24 HOURS, AND RESULTS:

No environmental monitoring on 8 March 92 (except general patrols of reservoir).

MONITORING ACTIVITIES PLANNED TODAY:

1. Pre-drawdown benthos monitoring in Little Goose reservoir.

2. Continue turbidity, resident fish, vegetation evaluation, and archaeological monitoring.

3. Units 3-5 gatewell dipping today. Results will be given in tomorrow's report.

OTHER:

1. Additional pumping capability will be used in Evans Pond today. There is an approximately 8 foot differential between it and the reservoir. WDW checking on it for fish.

2. Sloughing continues at Port of Wilma, but no structural damage yet. One new slough along Highway 12, but no effect on roadway as of yet.

If you have any questions, don't hesitate to call.

FROM: Sarah Wik
509-843-3364
Fax: 509-843-1131

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Larry Basham

FAX #: 503-230-7559

PHONE: 503-230-4287

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 9 Mar 92

TIME 0920

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Jim Athearn

PHONE: 503-326-2835

FAX #: 503-326-7328

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 9 Mar 92

TIME 0920

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Garth Griffin

PHONE: 503-230-5435

FAX #: 503-230-5430

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 9 Mar 92

TIME 0920

MESSAGE:

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: Cleve Steward FAX #: 206-553-4313

PHONE: 206-553-4529 # OF PGS (incl. header) 2

FROM: Sarah Wik DATE 9 Mar 92
PHONE: 509-843-3364
FAX: 509-843-1131 TIME 0920

MESSAGE:

If you want sockeye, better call in a hurry!

SJ

FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!! FAX!!!!!

CORPS OF ENGINEERS

RESERVOIR DRAWDOWN TEST

ENVIRONMENTAL COORDINATION OFFICE

LOWER GRANITE DAM JUVENILE FISH FACILITY

TO: ~~Mike Mason~~ Matt Caws

FAX #: 509-522-6943

PHONE: 509-522-6624

OF PGS (incl. header) 2

FROM: Sarah Wik
PHONE: 509-843-3364
FAX: 509-843-1131

DATE 9 Mar 92

TIME 0900

MESSAGE:

Matt:

You're invited for lunch today —

Menu: Carp w/ gooseberry sauce...

:)

SW