

## Feil, Dan H NWD

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**From:** Feil-Dan@npr70.nwd-wc.usace.army.mil  
**Sent:** Wednesday, November 12, 2008 4:10 PM  
**Subject:** CBT Msg: Bonneville chum operations #3 sent on 11/12/2008 at 16:09

Sent to: CO  
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BON R 111208 1609 CO BON TDA JDA MCN BPA BPC NPD NPC NPP

ATTENTION: BONNEVILLE AND BPA

SUBJECT: BONNEVILLE TAILWATER OPERATION FOR CHUM SPAWNING

\*\*\*\*\*REPLACES TTY: BON R 110708 1450  
\*\*\*\*\*REFERENCE TTY: BON R 110608 1750

1. EFFECTIVE IMMEDIATELY UNTIL FURTHER NOTICE:

HARD CONSTRAINT 1 - OPERATE BONNEVILLE PROJECT TAILWATER ELEVATION TO NO LOWER THAN 11.3 FT DURING ALL HOURS. MAINTAIN THE CONSTRAINTS OF REFERENCE TTY.

HARD CONSTRAINT 2 - MAINTAIN 11.3 TO 11.7 FT BONNEVILLE PROJECT TAILWATER ELEVATION BETWEEN 0600-1800 HOURS DAILY. TARGET ELEVATION IS 11.5 FT. MAINTAIN THE CONSTRAINTS OF REFERENCE TTY. SEE PARAGRAPHS 5-7.

SOFT CONSTRAINT 1 - MAINTAIN 11.3 TO 11.7 FT BONNEVILLE PROJECT TAILWATER ELEVATION BETWEEN 1800-0600 HOURS DAILY. TARGET ELEVATION IS 11.5 FT. MAINTAIN THE CONSTRAINTS OF REFERENCE TTY.

2. AS NEEDED, TO PASS WATER IN EXCESS OF WHAT IS NECESSARY TO MEET HARD CONSTRAINT 2, THE PROJECT IS AUTHORIZED TO RAISE THE TAILWATER ELEVATION UP TO 13.0 FT FOR UP TO 8 HOURS ANYTIME BETWEEN 1800-0600 HOURS, MAINTAIN THE CONSTRAINTS OF REFERENCE TTY.

3. IF 8 HOURS ANYTIME BETWEEN 1800-0600 HOURS SPECIFIED IN PARAGRAPH 2 IS NOT ENOUGH TIME TO PASS EXCESS WATER TO MAINTAIN HARD CONSTRAINT 2, THEN RAISE TAILWATER ELEVATION UP TO 15.0 FT FOR A 4 HOUR PERIOD BETWEEN 2200-0400 HOURS (WITHIN NORMAL RAMP RATE). MAINTAIN THE CONSTRAINTS OF REFERENCE TTY.

4. IF ACTIONS IN PARAGRAPHS 2 AND 3 ARE NOT SUFFICIENT TO PASS WATER IN EXCESS OF WHAT IS NECESSARY TO MEET HARD CONSTRAINT 2, THEN RAISE TAILWATER ELEVATION AS HIGH AS NECESSARY BETWEEN 1800-0600 HOURS (AS NORMAL RAMP RATE ALLOWS). MAINTAIN THE CONSTRAINTS OF REFERENCE TTY.

5. IF PARAGRAPH 4 IS NOT SUFFICIENT TO PASS EXCESS FLOW AND MAINTAIN HARD CONSTRAINT 2 BETWEEN 0600-1800 HOURS, THEN INCREASE TAILWATER ELEVATION UP TO 15.0 FT BETWEEN 1500-1800 HOURS (AS NORMAL RAMP RATE ALLOWS). RETURN TO HARD CONSTRAINT 2 AS SOON AS RIVER FLOW ALLOWS. MAINTAIN THE CONSTRAINTS OF REFERENCE TTY.

6. IF ACTIONS IN PARAGRAPHS 2-5 ARE NOT SUFFICIENT TO MAINTAIN HARD CONSTRAINT 2, THEN INCREASE TAILWATER ELEVATION AS NECESSARY UP TO 12.3 FT BETWEEN 0600-1800 HOURS. THIS ACTION ESTABLISHES A NEW HARD CONSTRAINT (HARD CONSTRAINT 3) WITH A TAILWATER ELEVATION RANGE THAT EXTENDS FROM THE HIGHEST TAILWATER ELEVATION ACHIEVED (UP TO 12.3 FT) DOWN TO THE UPPER TAILWATER ELEVATION ACHIEVED MINUS 0.4 FT BETWEEN 0600-1800 HOURS. MAINTAIN THE CONSTRAINTS OF REFERENCE TTY.

7. IF HARD CONSTRAINT 3 IDENTIFIED IN PARAGRAPH 6 CANNOT BE MAINTAINED, THEN AMEND HARD CONSTRAINT 3 TO INCLUDE AN UPPER TAILWATER ELEVATION LIMIT OF 12.5 FT BETWEEN 0600-1800 HOURS. THIS ACTION ESTABLISHES A NEW HARD CONSTRAINT (HARD CONSTRAINT 4) WITH A TAILWATER ELEVATION RANGE THAT EXTENDS FROM THE HIGHEST TAILWATER ELEVATION ACHIEVED (UP TO 12.5 FT) DOWN TO THE UPPER TAILWATER ELEVATION ACHIEVED MINUS 0.4 FT BETWEEN 0600-1800 HOURS.

MAINTAIN THE CONSTRAINTS OF REFERENCE TTY.

8. THE OFFICIAL PROJECT TAILWATER ELEVATION GAGE IS LOCATED ON THE OREGON SIDE 0.9 MILES DOWNSTREAM FROM BONNEVILLE DAM FIRST POWERHOUSE, 50 FEET UPSTREAM FROM TANNER CREEK AND AT RIVER MILE 144.5.

9. REQUEST BPA AND BONNEVILLE PROJECT COORDINATE TO ACHIEVE THE REQUESTED TAILWATER OPERATION. IT IS RECOGNIZED THAT TIDAL EFFECTS, WIND, AND WAVES MAY IMPACT THE ABILITY TO MAINTAIN THE OPERATION.

10. THIS OPERATION WAS DISCUSSED AND COORDINATED ON THE NOVEMBER 12 TMT CONFERENCE CALL. TMT MEMBERS PRESENT ON THE CALL WERE PAUL WAGNER (NOAA), JOHN ROACHE (BOR), TONY NORRIS (BPA), RICK KRUGER (OR), RUSS KEIFER (ID), AND CINDY LEFLEUR (WA). THE OPERATION WAS ALSO COORDINATED WITH STEVE SASS (BON). RCC POINTS OF CONTACT ARE DAN FEIL AND JIM ADAMS.

DAN FEIL

CENWD/RCC08

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