

# Condit Dam Decommissioning – Current Status

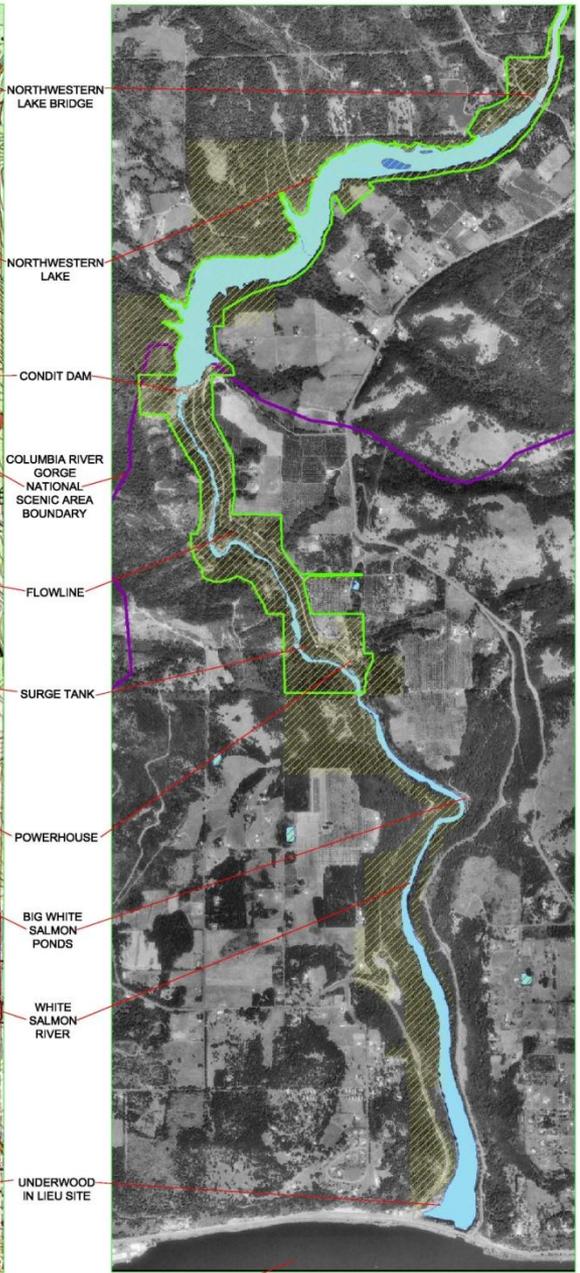
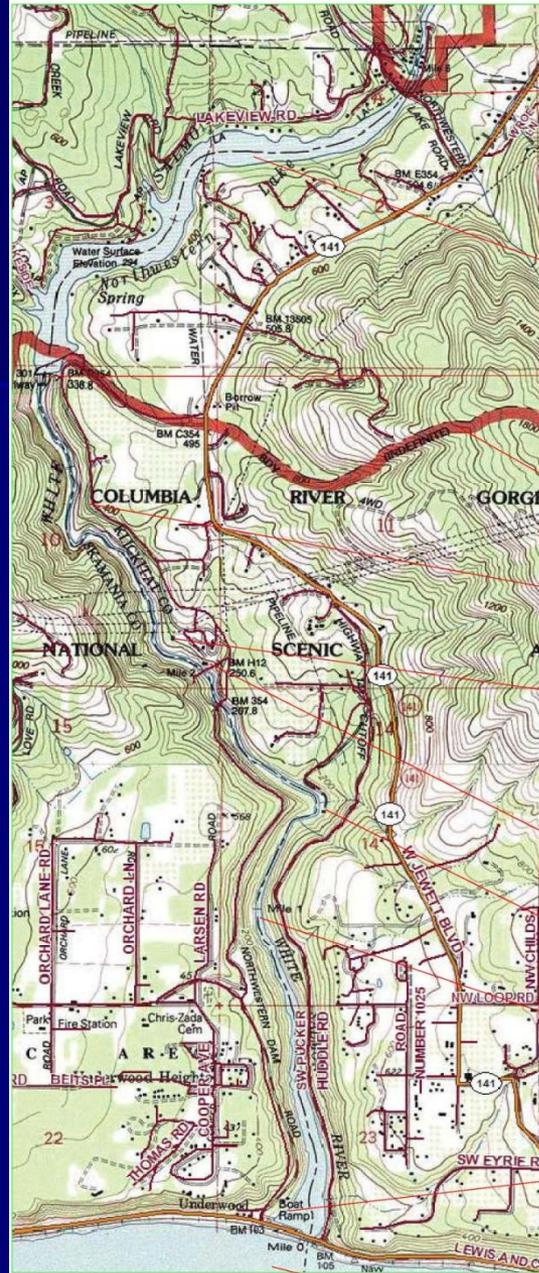
Presentation to Klickitat & White Salmon  
Rivers Fisheries and Watershed Science  
Conference

March 20, 2012

# Condit Project Overview

- Project is located near White Salmon, WA
  - 45-miles east of Portland, OR
- 3 miles upstream of the Columbia River
- Only man-made impoundment between Mt. Adams and the Columbia River
- Only one Columbia mainstem dam (Bonneville) between mouth of White Salmon River and Pacific Ocean

# Project Location



## LEGEND



# Northwestern Bridge



# Northwestern Bridge



# City of White Salmon Waterline



# Reservoir Drawdown



# Big White Pond Weir Install



# Fish salvage at the dam... in the beginning



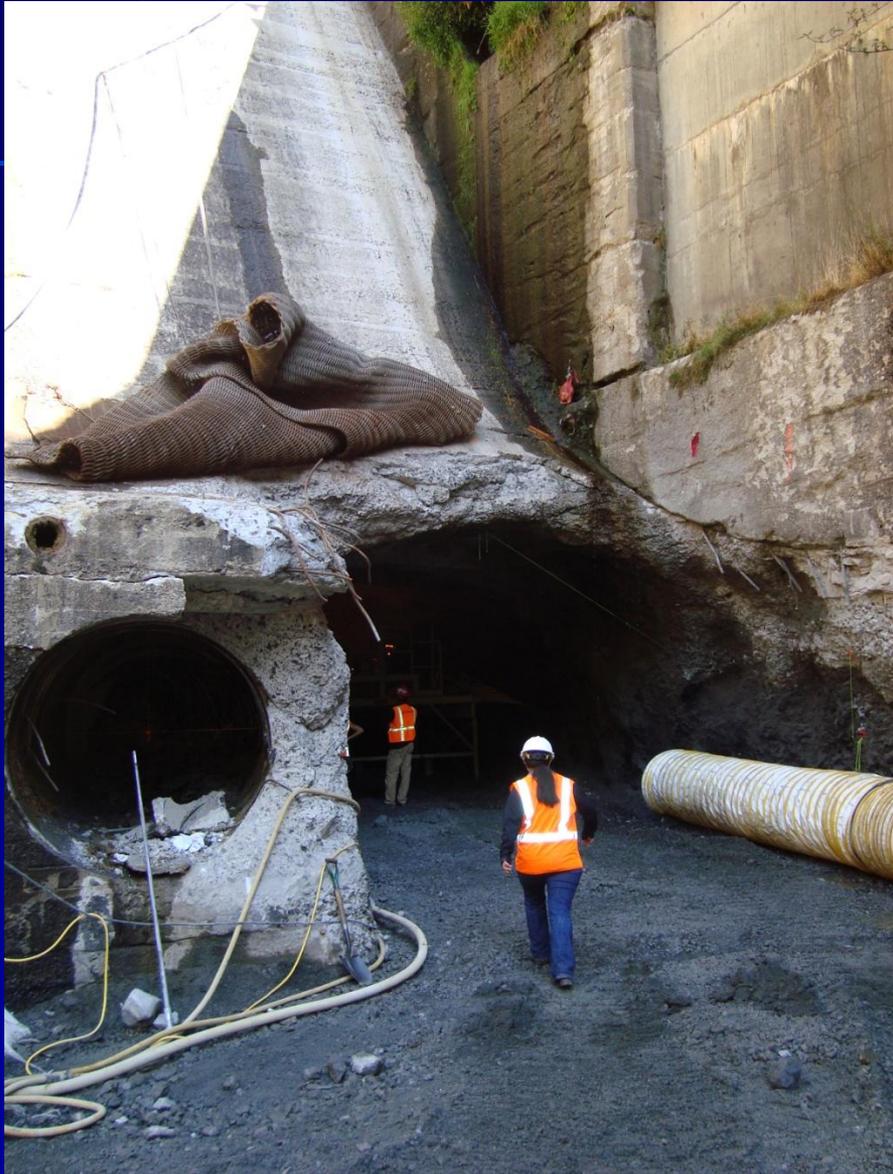
# Fish salvage ... by the end



# Tunneling Begins



# Tunnel – Outside & Inside



# Sediment depth - dredging



## Key Element:

- Estimate of 2.4 million cubic yards sediment

# Dredging sediment – looking for one of the original coffer dams and woody debris



# Breach day – October 26, 2011

## Reservoir Before



# Breach day – October 26, 2011

Sediment moving out



# Breach day – October 26, 2011

36 Tours



# Breach day – October 26, 2011

## Flow through tunnel

 [e Dunn Video – Tunnel Upstream](#)

 [e Dunn Video – Tunnel Downstream](#)

# Breach day – October 26, 2011

## Reservoir Before



# Breach day – October 26, 2011

## Reservoir After



# Post Breach Activities

## Public Safety



# Post Breach Activities

## Public Safety



# Post Breach Activities

## Old cofferdam



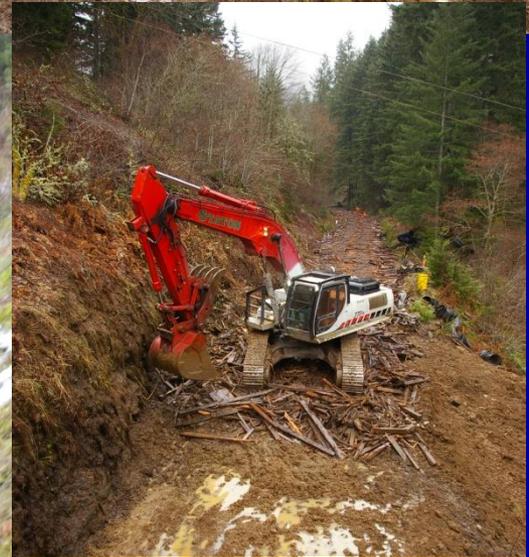
# Post Breach Activities

## Public Safety –wood pilings at bridge



# Post Breach Activities

## Demolition - Flowline



# Post Breach Activities

Demolition - Dam



# Post Breach Activities

## Sediment monitoring – Buck Creek

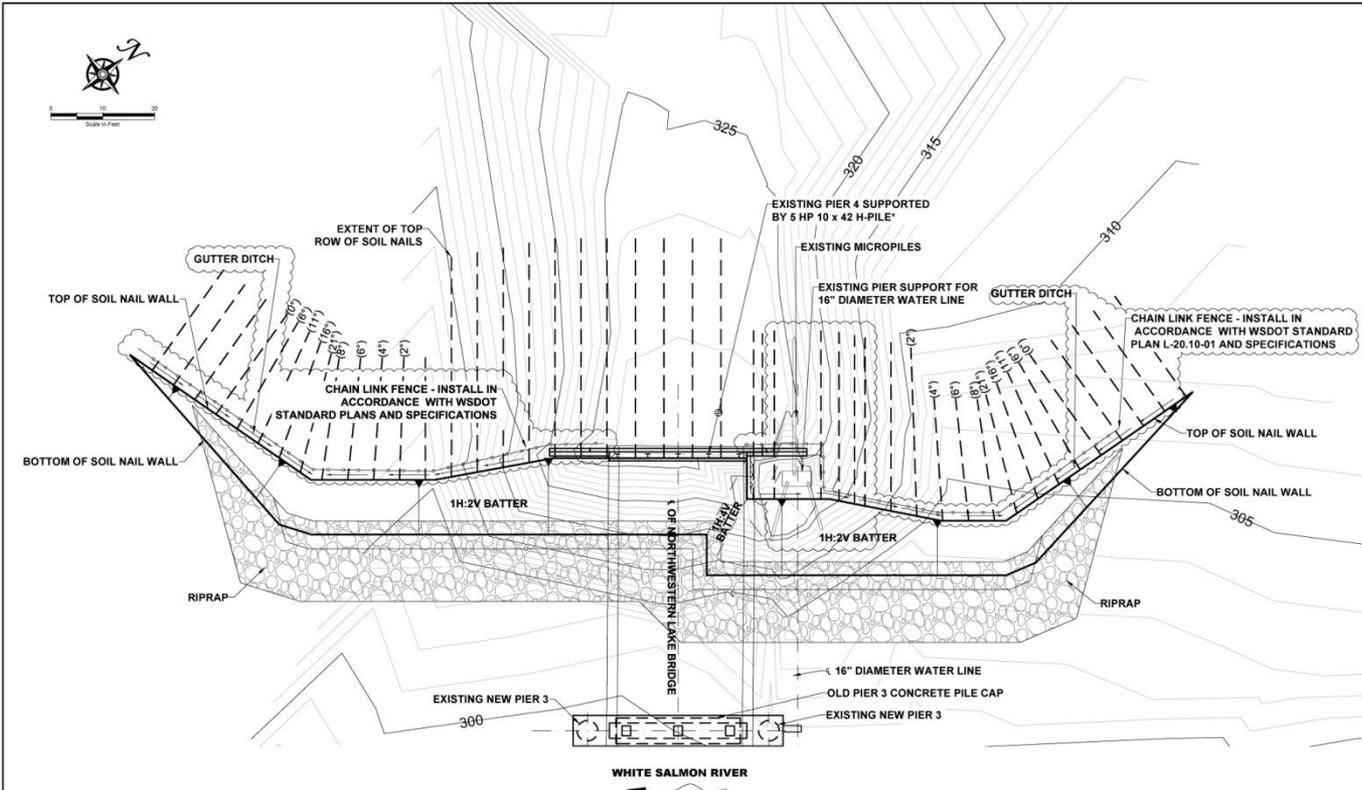


# Post Breach Activities

Sediment monitoring – Westside bridge riprap



# Diagram soil nail wall



**NOTES:**  
 \*H-PILES EXTEND TO AT LEAST 30 FEET IN DEPTH BELOW THE PILE CAP BASED ON THE STUDY BY GLOBAL GEOPHYSICS DATED FEBRUARY 5, 2012.  
**REFERENCE:** TOPOGRAPHY PROVIDED PIONEER SURVEYING & ENGINEERING, INC., FOR SKAMANIA COUNTY, WASHINGTON, 2011.

NO.	REVISION	BY	DATE
1	OWNER REVIEW FOR PERMITTING ONLY	DMC	12-28-11
2	BID SET	DMC	1-5-12
3		DMC	3-5-12



**KLEINFELDER**  
 Bright People. Right Solutions.  
 14710 NE 87th Street, Suite 100  
 Bellevue, WA 98003  
 PH: 425-682-7900 FAX: 425-635-9191  
 www.kleinfelder.com  
 PROJECT NO.: 117722  
 11/27/12

**PLAN VIEW**  
 CONDUIT HYDROELECTRIC PROJECT DECOMMISSIONING  
 REDUCED PLANS  
 NORTHWESTERN LAKE BRIDGE  
 PERMANENT SOIL NAIL WALL DESIGN  
 NORTHWESTERN LAKE, WASHINGTON

DESIGNED BY: DMC  
 DRAWN BY: JJS  
 CHECKED BY: RDL  
 DATE: DECEMBER 2011  
 SCALE: 1" = 10'-0"  
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS:  
 1" = 0.5' 1.0' 1.5' 2.0'

DRAWING: **SH2.0**  
 2 of 7 sheets

ATTACHED MAPS: Highways, Dams, Riprap, and Stable Grouted Layout, 2008

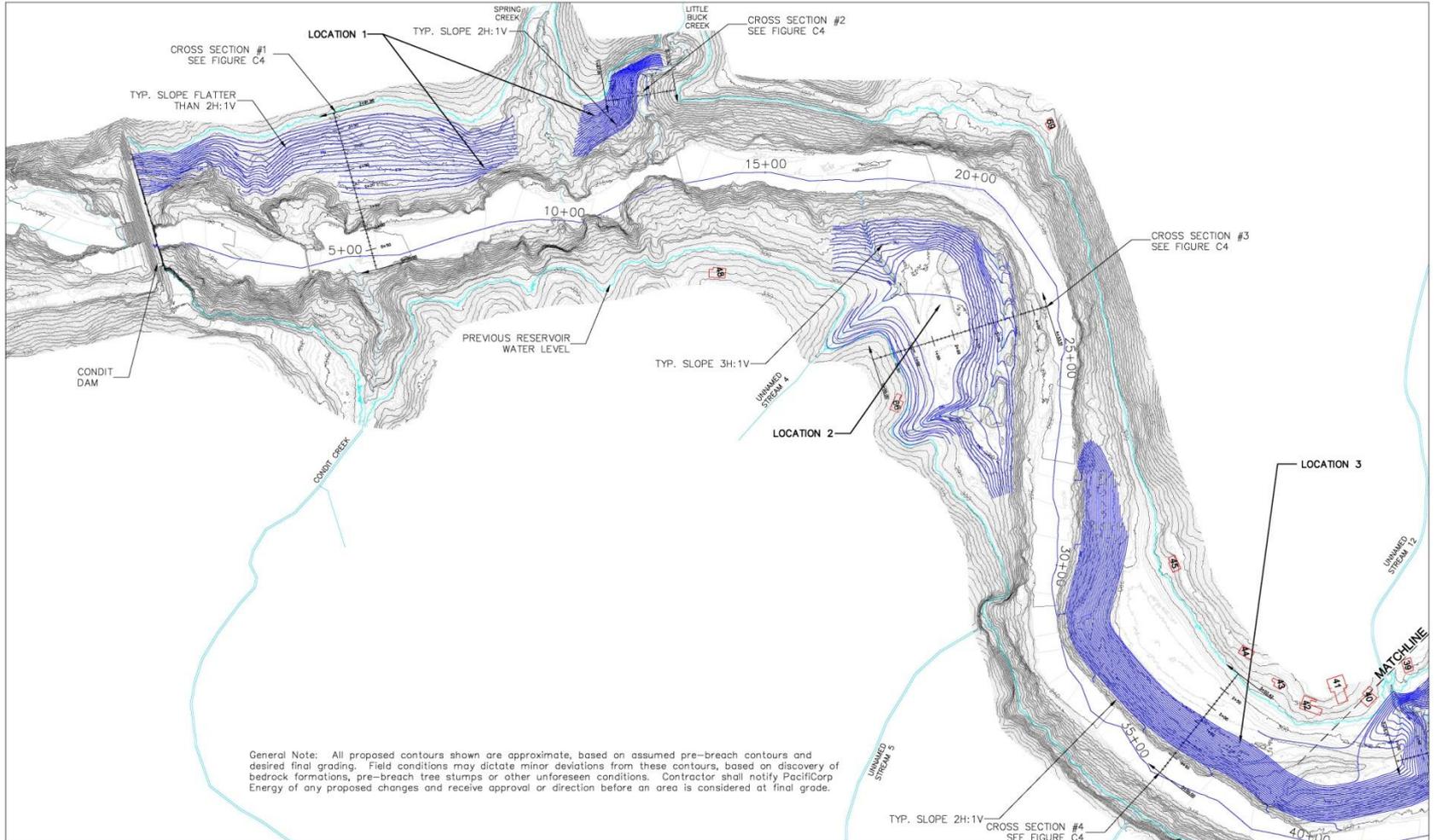
PLOTTER: B3 2014 4800 250mm

# Post Breach Activities

Sediment management – the former reservoir

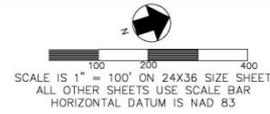


# Grading



General Note: All proposed contours shown are approximate, based on assumed pre-breach contours and desired final grading. Field conditions may dictate minor deviations from these contours, based on discovery of bedrock formations, pre-breach tree stumps or other unforeseen conditions. Contractor shall notify PacifiCorp Energy of any proposed changes and receive approval or direction before an area is considered at final grade.

- # EXISTING CABINS
- 12.21.2011 LIDAR CONTOURS (1 FT CONTOUR INTERVALS)
- PROPOSED CONTOURS (2 FT. CONTOUR INTERVALS)



**JR MERIT**  
INDUSTRIAL CONTRACTORS

**PACIFICORP ENERGY**  
A DIVISION OF PACIFICORP

**RIVERBEND ENGINEERING, LLC**  
102 3rd Street, Pappas Springs, CO 81147  
Tel: 970.264.1195 FAX: 970.264.1196  
www.riverendlocation.com

<b>CONDIT DAM DECOMMISSIONING</b>	
<b>FIGURE C1</b>	
<b>PROPOSED GRADING PLAN</b>	
<b>SOUTH SECTION</b>	
Scale: 1" = 100 ft	2/20/2012

# Post Breach Activities

Sediment management – the former reservoir



# Post Breach Activities

Sediment monitoring - breach day mouth of  
White Salmon River



# Post Breach Activities

Sediment monitoring - mid-January 2012  
mouth of White Salmon River



# 2012 Schedule – end dates

- Flowline, surge tank, penstock removal – May 1, 2012
- Cofferdam removal – May 1, 2012
- NW Lake Bridge stabilization – June 30, 2012
- Sediment management – ongoing through August 2012
- Dam removal – August 30, 2012
- Revegetation – Fall 2012 and Fall 2013

# Safety

- Limited access at Northwestern Lake park – Installing temporary boater take out
- River is closed downstream of the park boater take out to downstream of powerhouse
- No public access from Powerhouse Road
- Lower river is open for fishing; access off of Hwy 141-A
- Please heed warning signs and fencing in project area
- Expect river within the project area to be open for boater use in early September

For more information please visit:

[www.pacificorp.com/condit](http://www.pacificorp.com/condit)