Rev. 1/14/02

FERC NO. 4441 - Skookumchuck Dam

Inundation Map - KEY MAP *(1 of 2)*

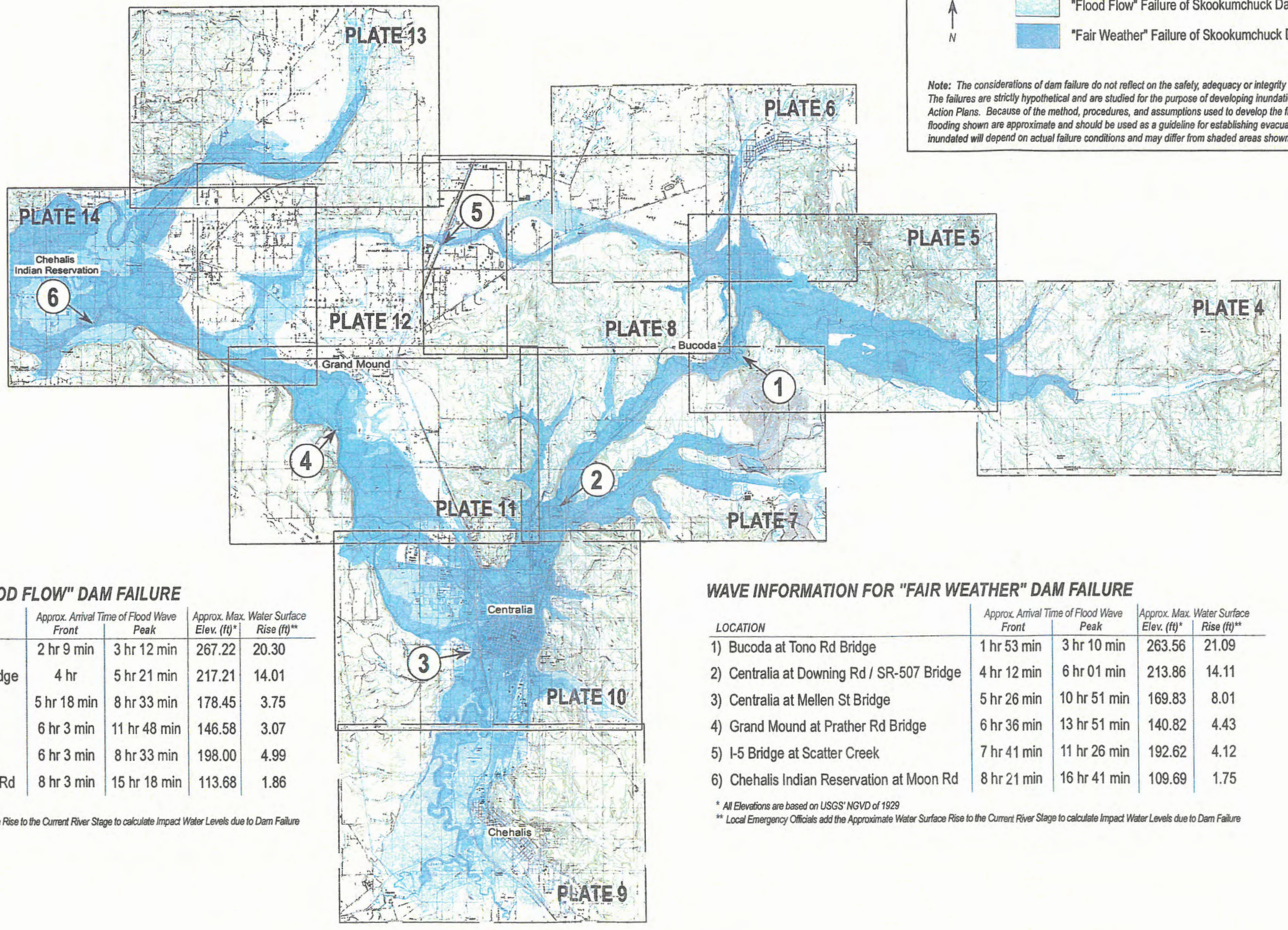
PLATE 2

N

"Flood Flow" Failure of Skookumchuck Dam

"Fair Weather" Failure of Skookumchuck Dam

Note: *The considerations of dam failure do not reflect on the safety, adequacy or integrity of Skookumchuck Dam. The failures are strictly hypothetical and are studied for the purpose of developing inundation maps and Emergency Action Plans. Because of the method, procedures, and assumptions used to develop the flood areas, the limits of flooding shown are approximate and should be used as a guideline for establishing evacuation zones. Actual areas inundated will depend on actual failure conditions and may differ from shaded areas shown on maps.*



WAVE INFORMATION FOR "FLOOD FLOW" DAM FAILURE

LOCATION	*Approx. Arrival Time of Flood Wave*		*Approx. Max. Water Surface*	
	Front	*Peak*	*Elev. (ft)**	*Rise (ft)***
1) Bucoda at Tono Rd Bridge	2 hr 9 min	3 hr 12 min	267.22	20.30
2) Centralia at Downing Rd / SR-507 Bridge	4 hr	5 hr 21 min	217.21	14.01
3) Centralia at Mellen St Bridge	5 hr 18 min	8 hr 33 min	178.45	3.75
4) Grand Mound at Prather Rd Bridge	6 hr 3 min	11 hr 48 min	146.58	3.07
5) I-5 Bridge at Scatter Creek	6 hr 3 min	8 hr 33 min	198.00	4.99
6) Chehalis Indian Reservation at Moon Rd	8 hr 3 min	15 hr 18 min	113.68	1.86

** All Elevations are based on USGS' NGVD of 1929*

*** Local Emergency Officials add the Approximate Water Surface Rise to the Current River Stage to calculate Impact Water Levels due to Dam Failure*

WAVE INFORMATION FOR "FAIR WEATHER" DAM FAILURE

LOCATION	*Approx. Arrival Time of Flood Wave*		*Approx. Max. Water Surface*	
	Front	*Peak*	*Elev. (ft)**	*Rise (ft)***
1) Bucoda at Tono Rd Bridge	1 hr 53 min	3 hr 10 min	263.56	21.09
2) Centralia at Downing Rd / SR-507 Bridge	4 hr 12 min	6 hr 01 min	213.86	14.11
3) Centralia at Mellen St Bridge	5 hr 26 min	10 hr 51 min	169.83	8.01
4) Grand Mound at Prather Rd Bridge	6 hr 36 min	13 hr 51 min	140.82	4.43
5) I-5 Bridge at Scatter Creek	7 hr 41 min	11 hr 26 min	192.62	4.12
6) Chehalis Indian Reservation at Moon Rd	8 hr 21 min	16 hr 41 min	109.69	1.75

** All Elevations are based on USGS' NGVD of 1929*

*** Local Emergency Officials add the Approximate Water Surface Rise to the Current River Stage to calculate Impact Water Levels due to Dam Failure*

Inundation Map PLATE 7

"Flood Flow" Failure of Skookumchuck Dam

"Fair Weather" Failure of Skookumchuck Dam

0 1/2 1 MILE

1000 0 1000 2000 3000 4000 FEET

N

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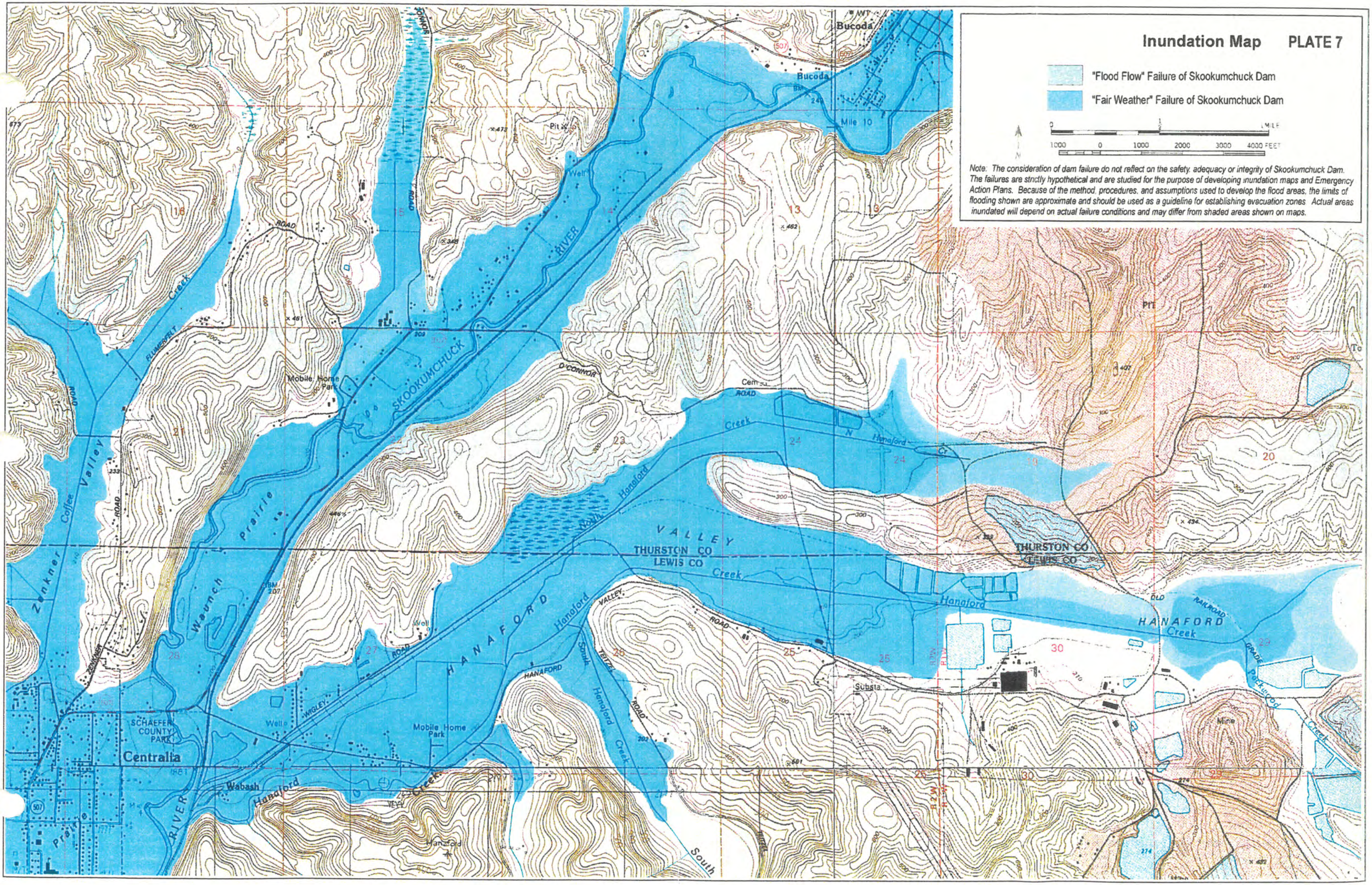

Inundation Map PLATE 10

"Flood Flow" Failure of Skookumchuck Dam

"Fair Weather" Failure of Skookumchuck Dam

0 ½ 1 MILE

1000 0 1000 2000 3000 4000 FEET

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Galvin
Fords Prairie Substation
Galvin Rd.
Reynolds Ave.
Fords Prairie Rd.
Russell Rd.
Fords Prairie
Blakeslee Junction
Coffee Creek
Wasson
Ganford
HALLADAY ROAD
CHEHALIS RIVER
INTERSTATE 5
SKOOKUMCHUCK
CENTRALIA
Pearl St.
China Creek
Scheuber Rd.
Fort Borst Park
Fort Borst Lake
Hayes Lake
Radio Tower KELA
HILL
Military Rd.
Cooks Hill Road
Scammon Creek
Graf Rd.
Horseshoe Lake
South Branch
Gold St.
Burlington Northern
Fairgrounds
Seminary Hill
Natural
SALZER VALLEY
Salzer Valley Creek
Trailer Park
Plummer Lake
Borst Lake
Park
Golf Course
Cemetery
Mile 63
Mile 66
T15N
T14N
R1W
R2W
R3W
BM 175.5
387 T
379 T
271 T
425 T
355 T
288 T
174 T
2837

Inundation Map PLATE 11

"Flood Flow" Failure of Skookumchuck Dam

"Fair Weather" Failure of Skookumchuck Dam

1 MILE

1000 0 1000 2000 3000 4000 FEET

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RIVER
Grand Mound
Prairie
Creek
Grand Mound
Gravel Pit
Borrow Pit
Sewage Disposal Pond
CHEHALIS
Log Station
Borrow Pit
Borrow Pit
HOBSON
MC ELFRESH
Well
Trailer Park
Trailer Park
Mobile Home Park
Pit
Monarch Mine
Stoker Mine
Majestic Mine
Davis Hill
THURSTON CO
LEWIS CO
SMITH ROAD
Creek
LEY
Lincoln
Lin
Creek
Creek
Creek
Creek
Galvin
Trailer Park
Wooden Bridge
RIVER
R2W
R3W
CHEHALIS
Mile 62
Mile 63
Mile 60
Mile 2
Borrow Pit
Pit
Hill
Zink
Creek
Creek
Creek
Creek