

# OBJECTIVES

- Increase small gravel depositions in areas where past steelhead redds were observed but current gravel supply depleted
- Add suitable steelhead spawning gravel near hydraulic, boulder or log cover in areas where hydraulics look good but steelhead redds not observed and little or no small gravel present
- Increase number of suitable spawning locations in upstream sections 6, 5 and 4

# STRATEGY

- Place sufficient gravel to create 4 inch depth over areas approximately 20 sq yds (6-7 cu yds per location)
- Place gravel where depths and velocities match previous redds ( $D=1'-3'$ ,  $V=1-3$  fps)
- Place gravel thicker at upstream part of each site since downstream movement is expected
- Placement sites are shown in following slides showing previous redd locations
- No sites in lower portion of Section 2 since this section has been accumulating small gravel

# Chelan River Steelhead Redds

2011 - 2013



Reach 4 Habitat Channel Sections

# SURVEY SUMMARY

DATE	NEW REDDS	DATE	NEW REDDS	DATE	NEW REDDS
3/16/11	0	3/29/12	2	3/20/13	1
3/25/11	0	4/6/12	2	3/27/13	0
4/1/11	5	4/13/12	1	4/2/13	5
4/6/11	1	4/17/12	1	4/9/13	6
4/14/11	2	4/25/12	0	4/16/13	7
4/22/11	8	5/3/12	0	4/23/13	2
5/3/11	4	5/8/12	0	4/30/13	0
5/10/11	0	5/16/12	1	5/7/13	0
5/18/11	0	High Spill	-	5/14/13	0
5/24/11	0	High Spill	-	5/22/13	0
6/1/11	1	High Spill	-	5/28/13	0
High Spill	-	High Spill	-	6/7/13	0
Total	21	Total	7	Total	21

# REDDS IN SECTION 6



2011 ○

2012 ○

2013 ○

# REDDs IN SECTION 5

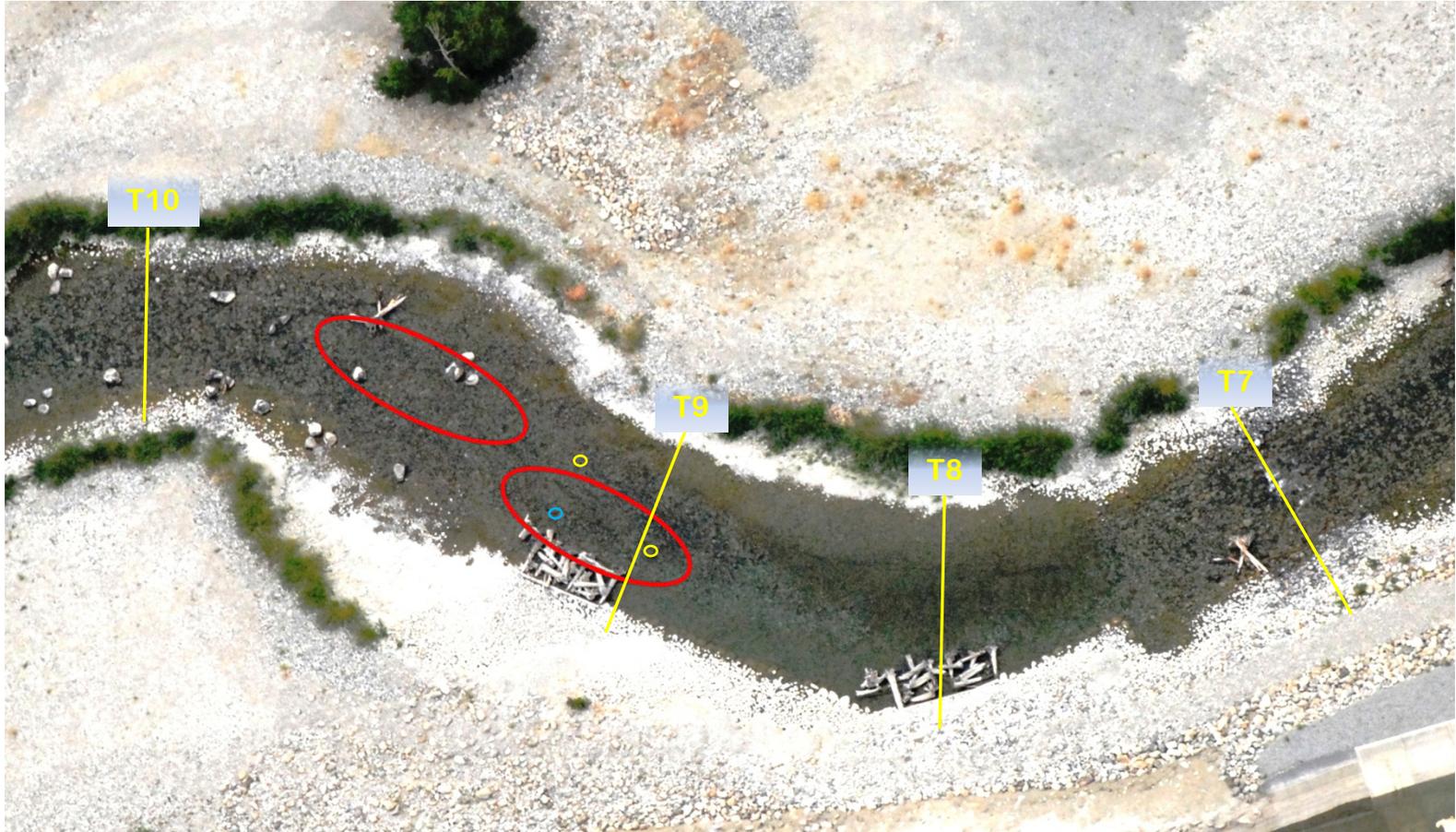


2011 ○

2012 ○

2013 ○

# REDDS IN SECTION 4



2011 ○

2012 ○

2013 ○

# REDDs IN SECTION 3



2011 ○

2012 ○

2013 ○

# REDDs IN SECTION 2



2011 ○

2012 ○

2013 ○