Icicle Workgroup Presentation

IPID Pump Exchange Fatal Flaw Evaluation

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2012 Appraisal Study Overview

- Started with OCR Grant for Campbell Creek Reservoir
- 5 Alternatives studied with varying benefits to Peshastin and Icicle Creeks
- Alternative 1 (Dryden) alternative move to fatal flaw investigation (pre-feasibility)
  - Location – Dryden, approx. RM 17.9
  - $3.9 M project implementation cost ($7.6 M 50-year life cycle) for 40 cfs pump station
  - Could benefit Peshastin by up to 40 cfs and Icicle by up to 15 cfs (40 cfs combined total)

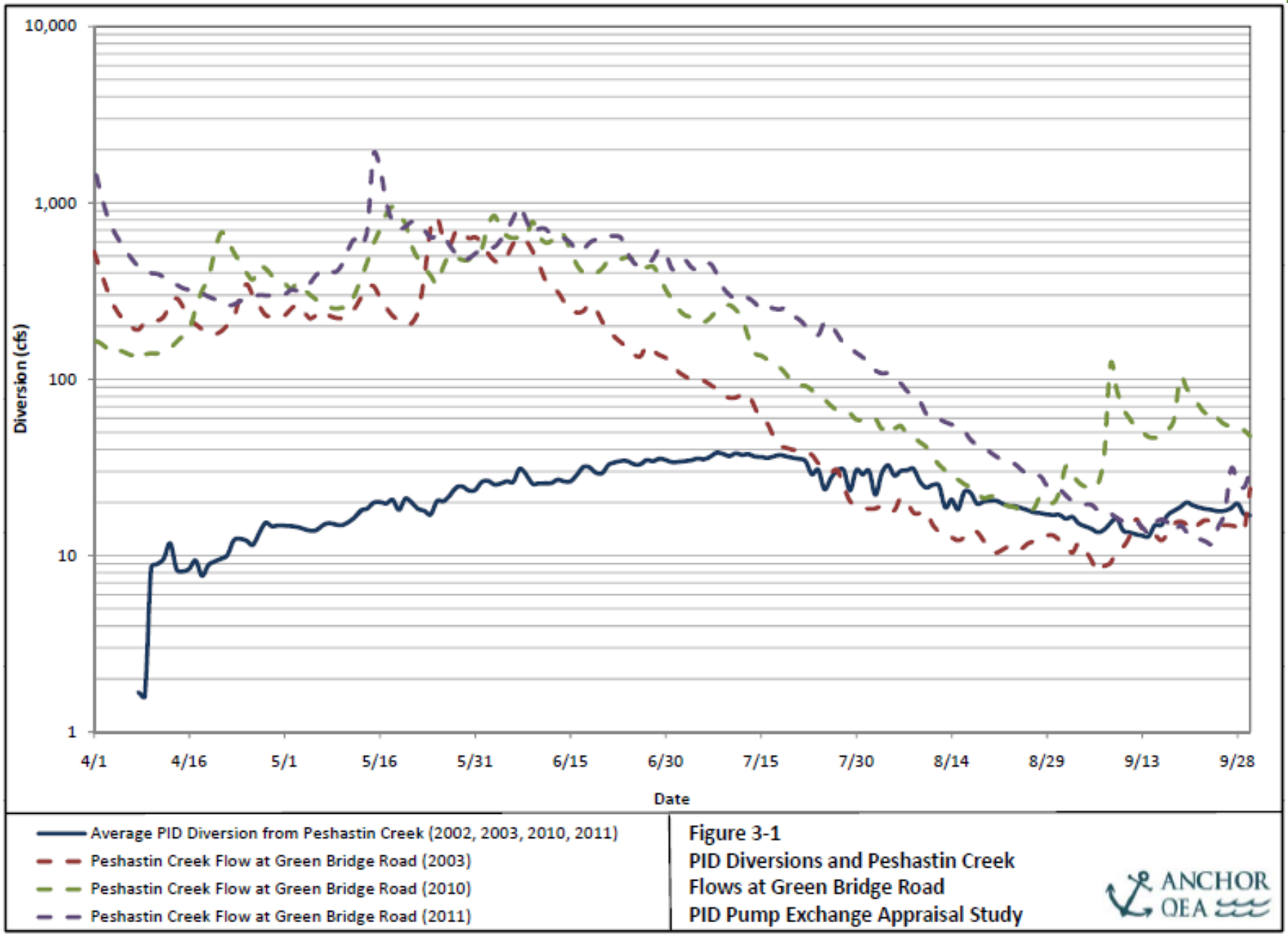

Figure 3-1
PID Diversions and Peshastin Creek Flows at Green Bridge Road
PID Pump Exchange Appraisal Study

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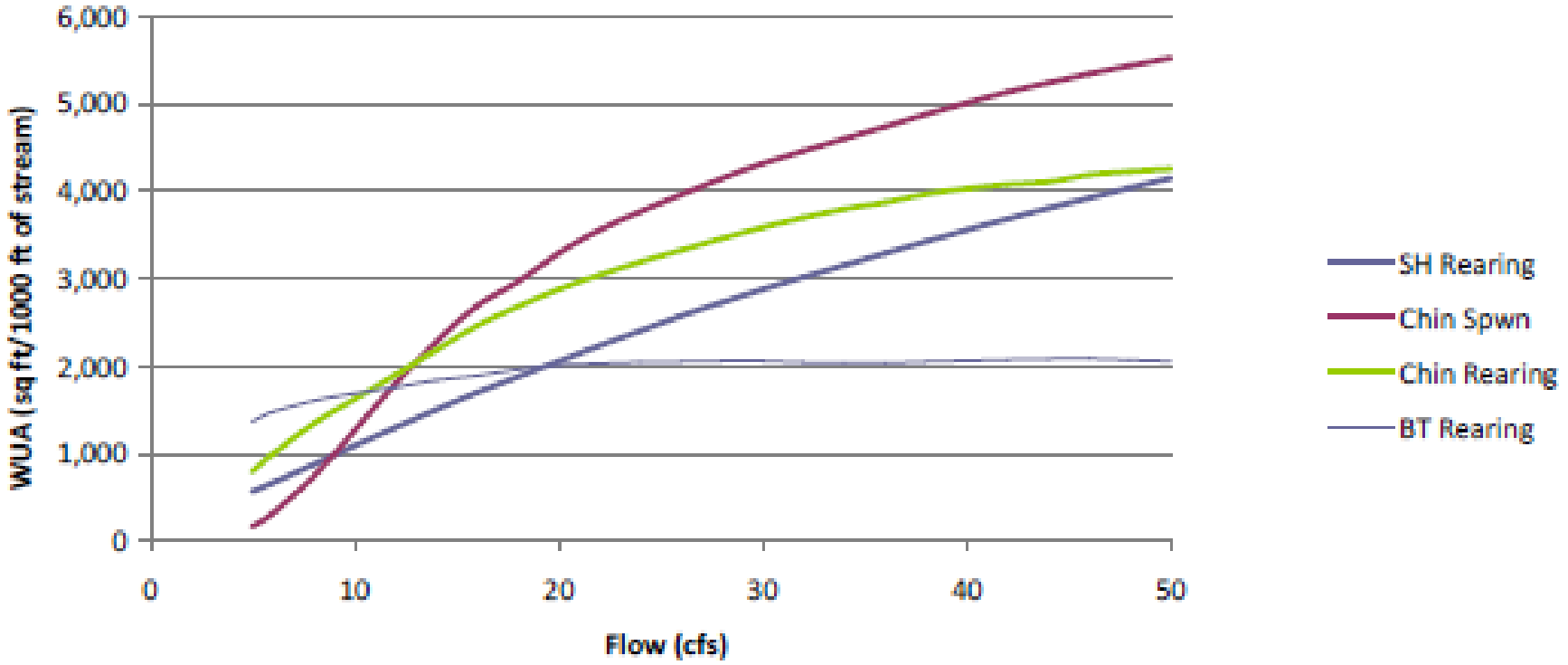
Figure 3
Lower Peshastin Creek WUA



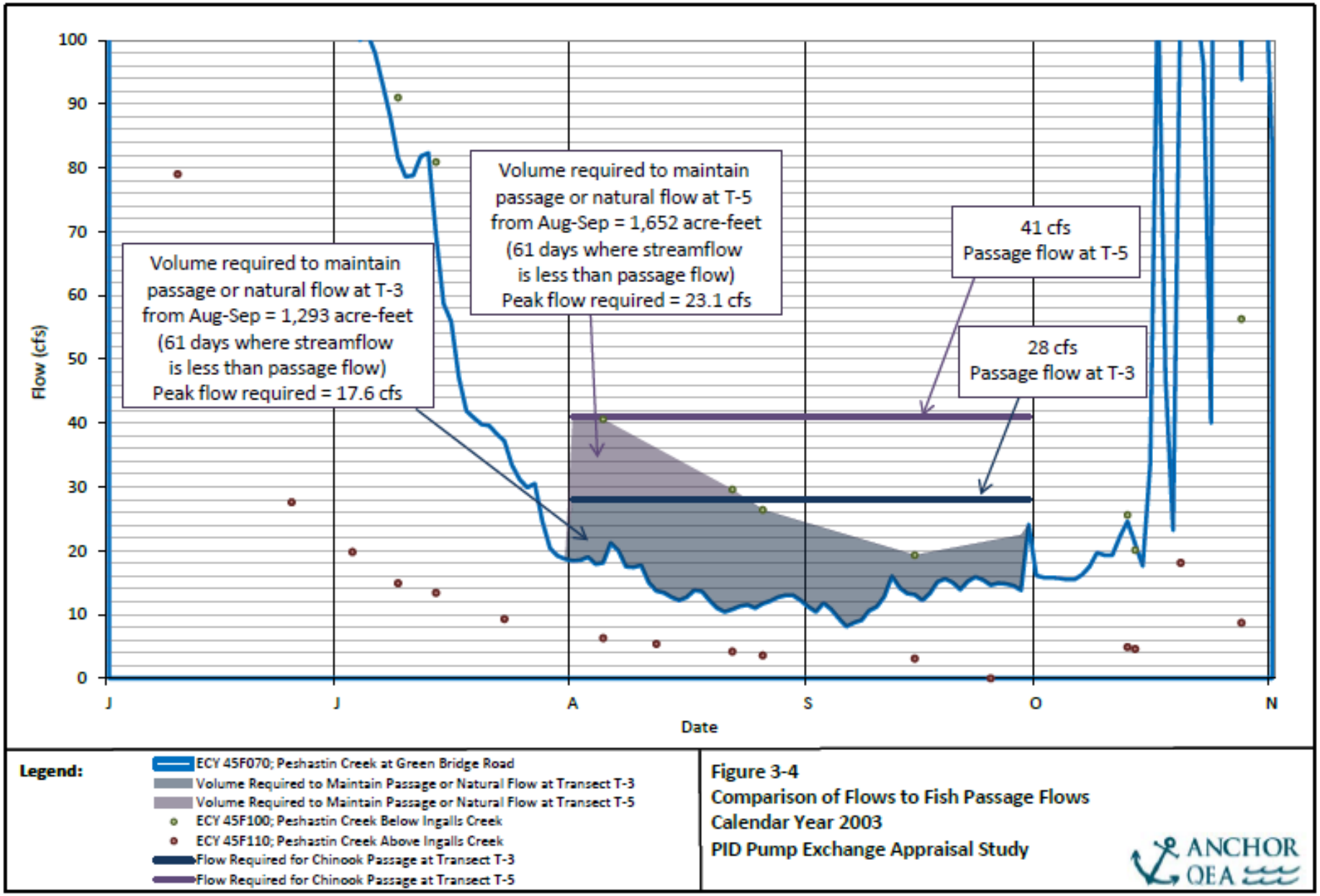


Figure 3-4
Comparison of Flows to Fish Passage Flows
Calendar Year 2003
PID Pump Exchange Appraisal Study

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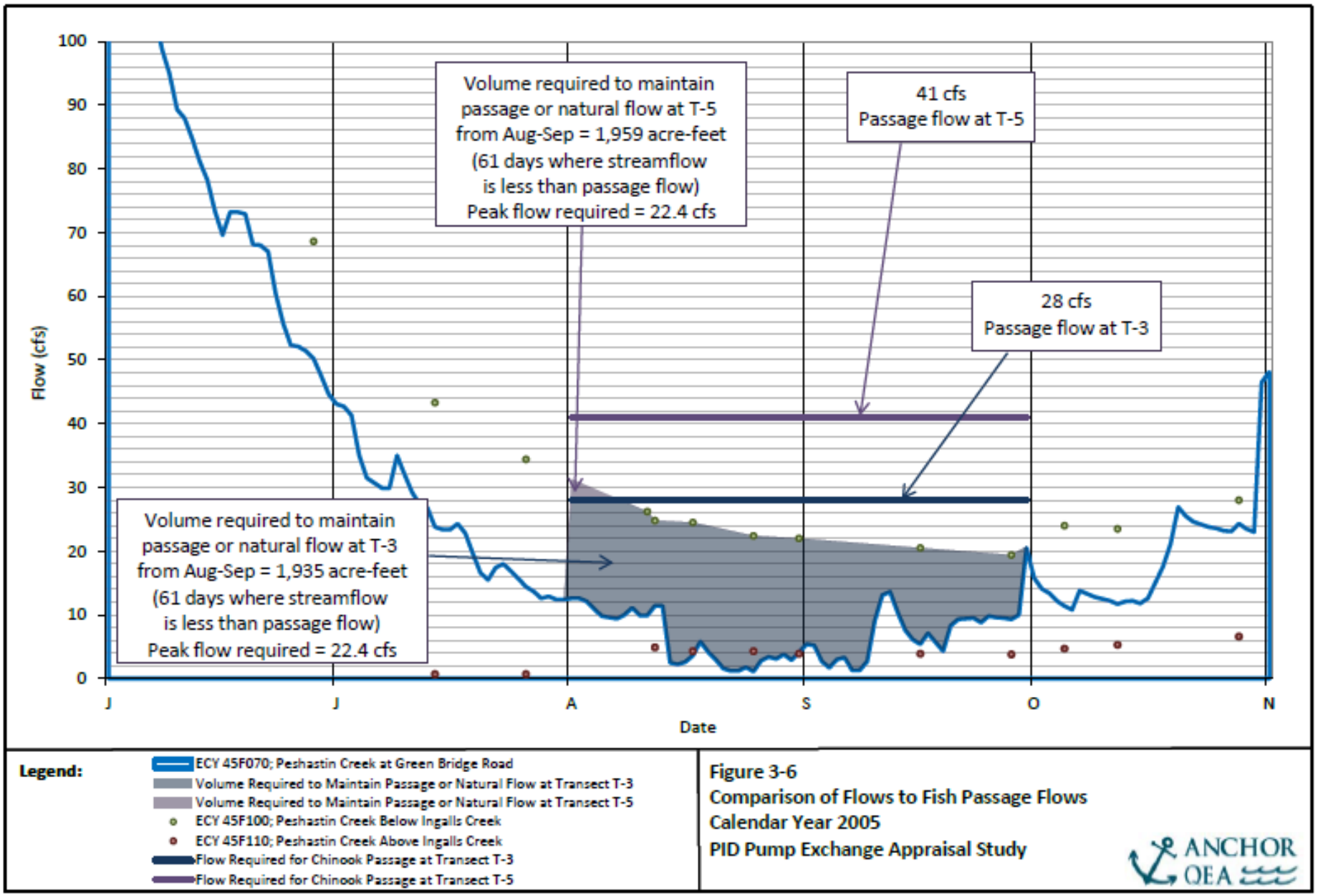

Figure 3-6
Comparison of Flows to Fish Passage Flows
Calendar Year 2005
PID Pump Exchange Appraisal Study

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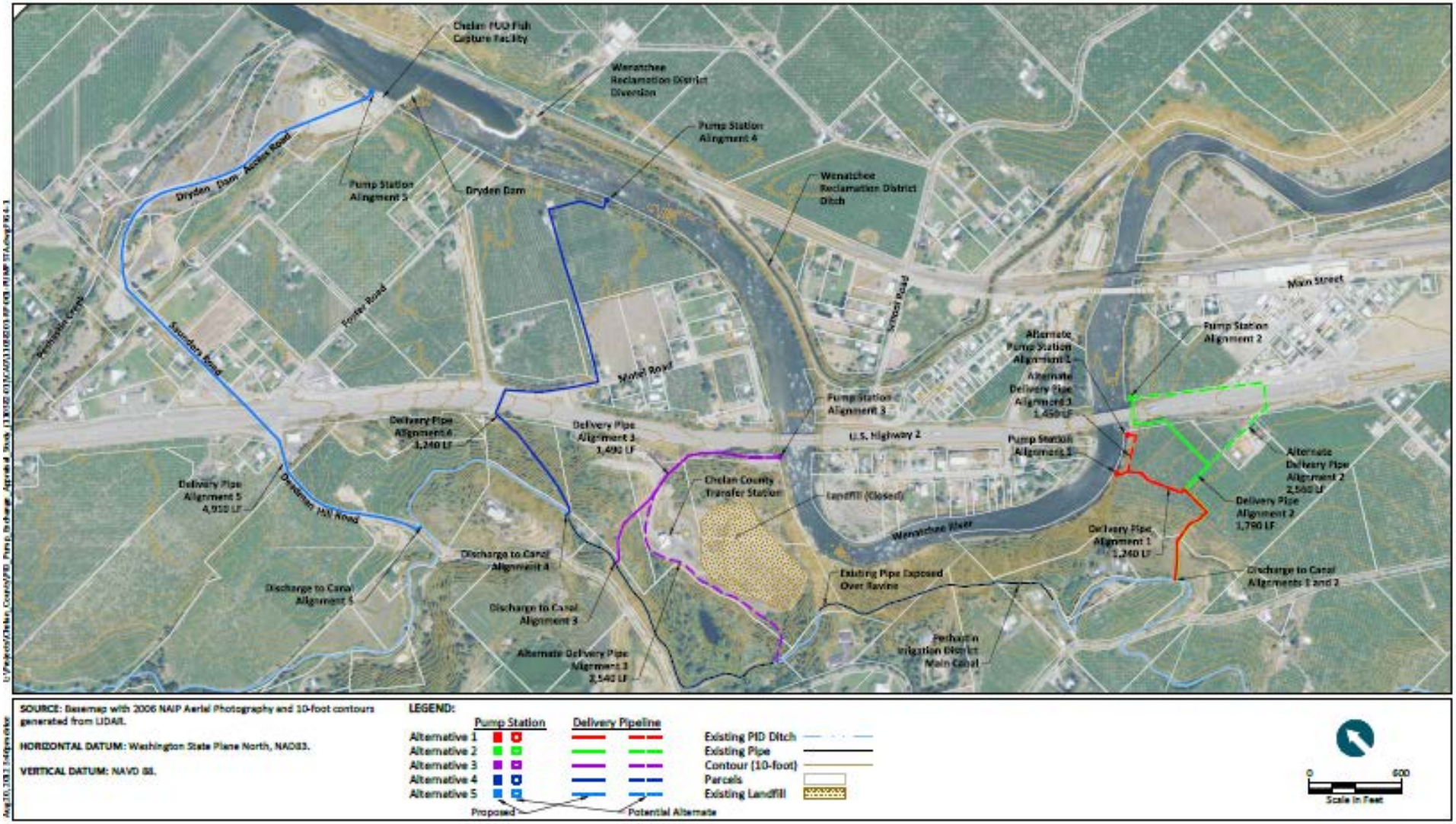

SOURCE: Basemap with 2006 NAIP Aerial Photography and 10-foot contours generated from LiDAR.

HORIZONTAL DATUM: Washington State Plane North, NAD83.

VERTICAL DATUM: NAVD 88.

LEGEND:

	Pump Station	Delivery Pipeline
Alternative 1		
Alternative 2		
Alternative 3		
Alternative 4		
Alternative 5		

Proposed | Potential Alternate

Existing PID Ditch
Existing Pipe
Contour (10-foot)
Parcels
Existing Landfill

0 600
Scale in Feet

Figure 4-1
Preliminary Alternatives
Peshastin Irrigation District Pump Exchange Appraisal Study
Chelan County Natural Resources Department

OCR Grant Overview / Next Steps

IPID Pump Exchange (Dryden Location) Fatal Flaw Analysis:

- Build on December 2012 Appraisal Alternatives Study
- Evaluate key issues required for feasibility:
  - Property Owner Coordination
  - Fisheries Coordination (Peshastin and Icicle Benefit)
  - Geotechnical Exploration (soil/rock characterization in pipe alignment / pump station)
  - Topographic Survey (pump station / river stage survey, pipeline alignment)