

Russian River Estuary Management



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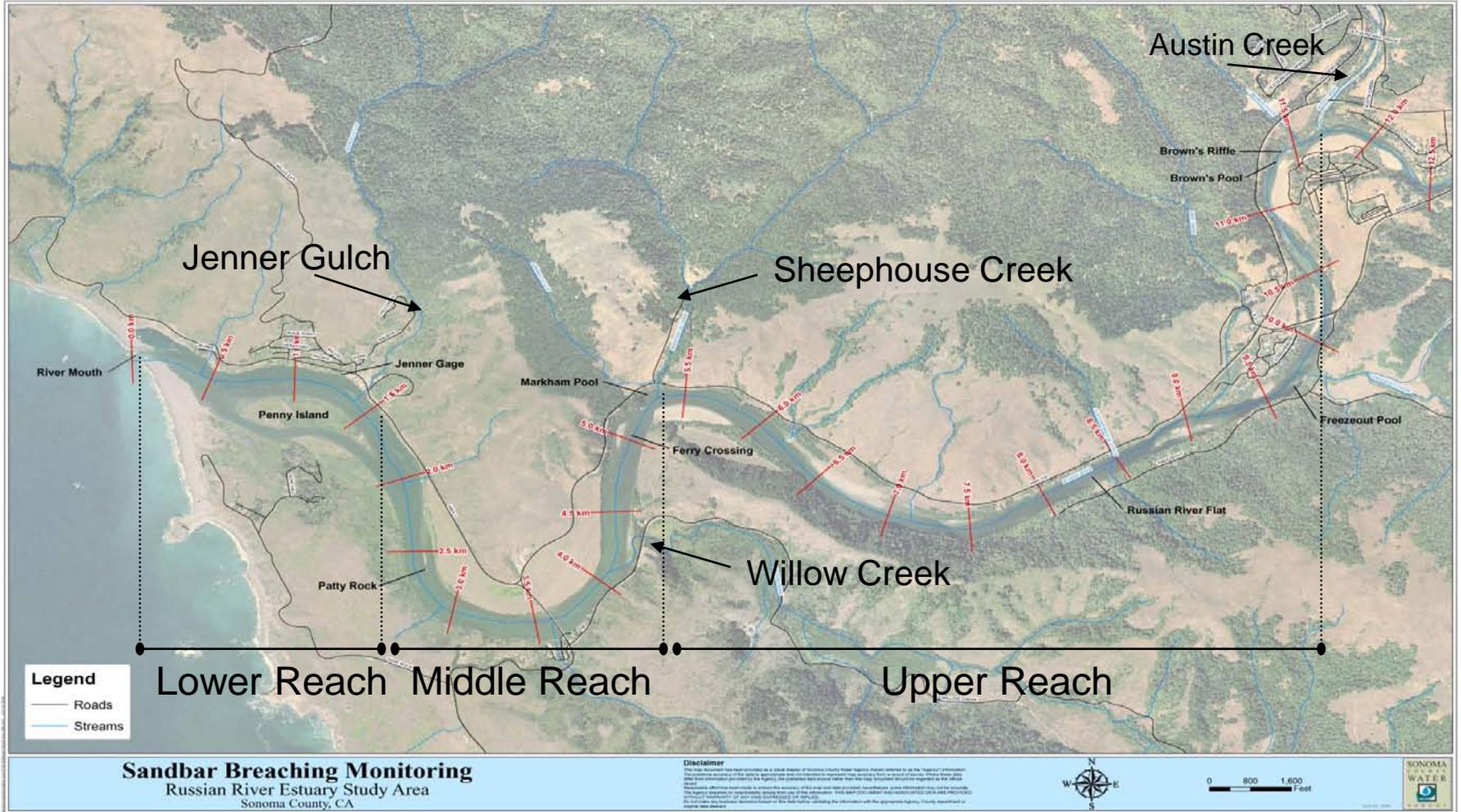
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SONOMA
C O U N T Y
W A T E R

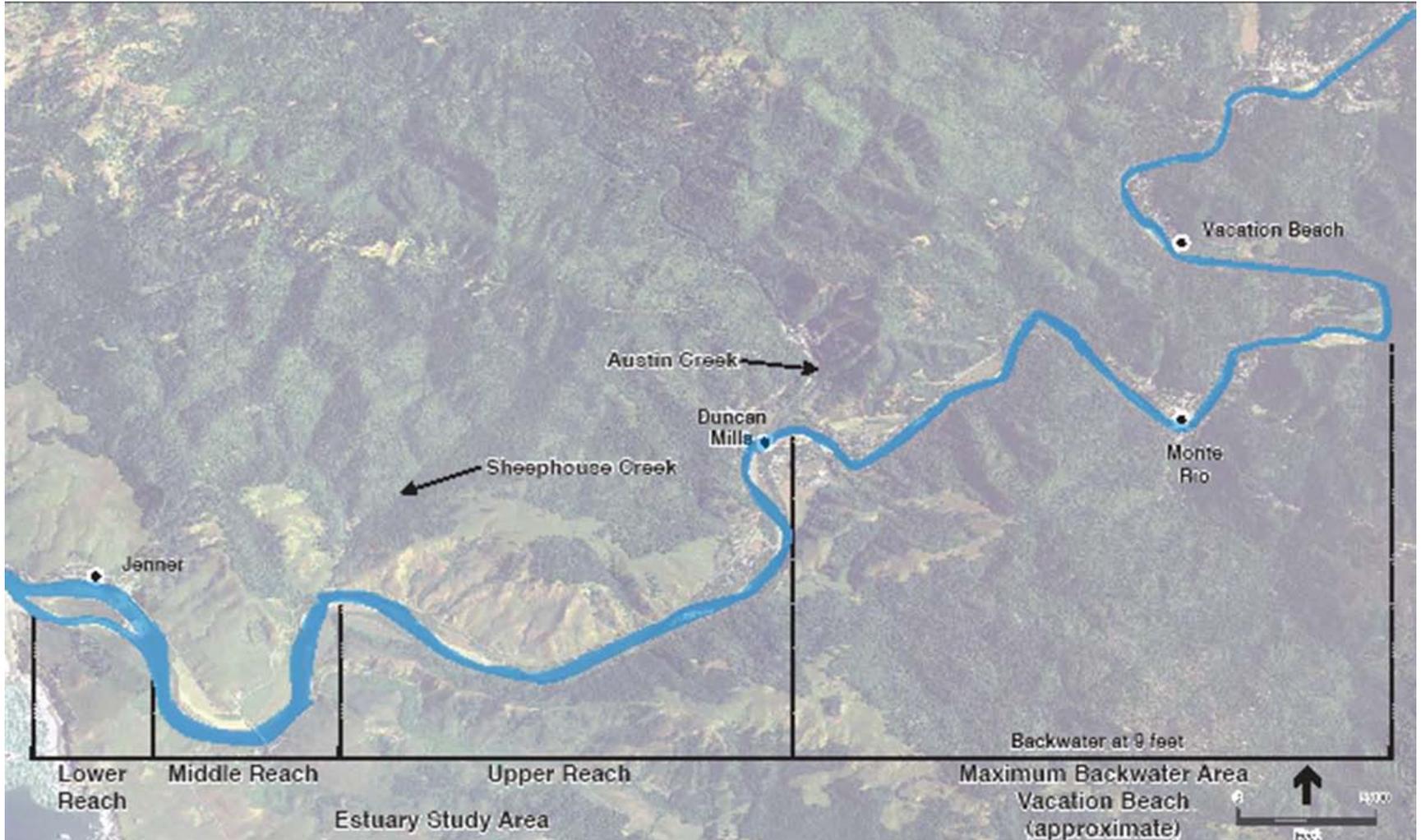


A G E N C Y

Russian River Estuary



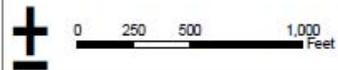
Barrier Beach Formed Lagoon



Artificial Breaching



Source: Sonoma County Orthophotography (April-May, 2000)



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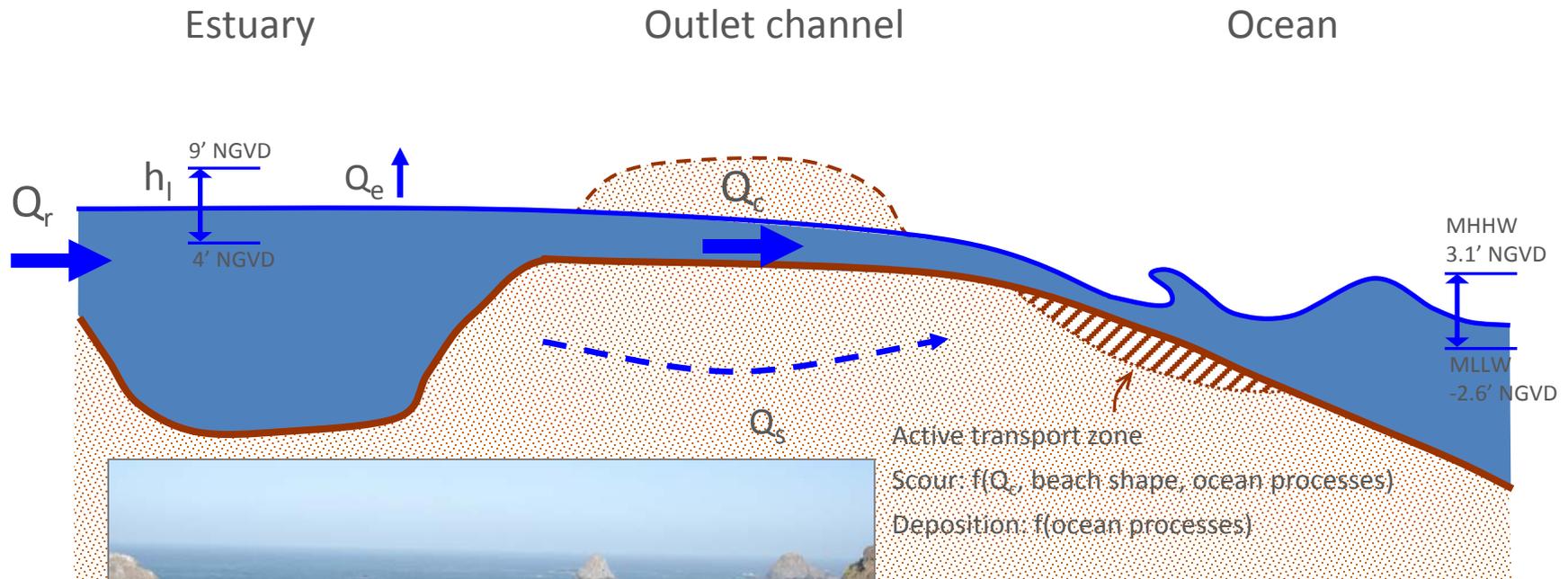
figure 1
Russian River Estuary Outlet Channel Management Plan

Russian River Estuary Site Location

PWA Ref - 1958.01



Lagoon Outlet Adaptive Management



Understanding Interactions

- Physical processes
 - Circulation
 - Barrier beach formation
 - Interaction with jetty
- Ecosystem responses
 - Water quality
 - Prey availability
 - Steelhead habitat



July 1, 2010 Natural Open Channel. Photo from Highway 1 Overlook.



July 7, 2010 Channel Closed by Tidal Action. Photo from Highway 1 Overlook.



July 8, 2010 Created Outlet Channel. Photo from Highway 1 Overlook.

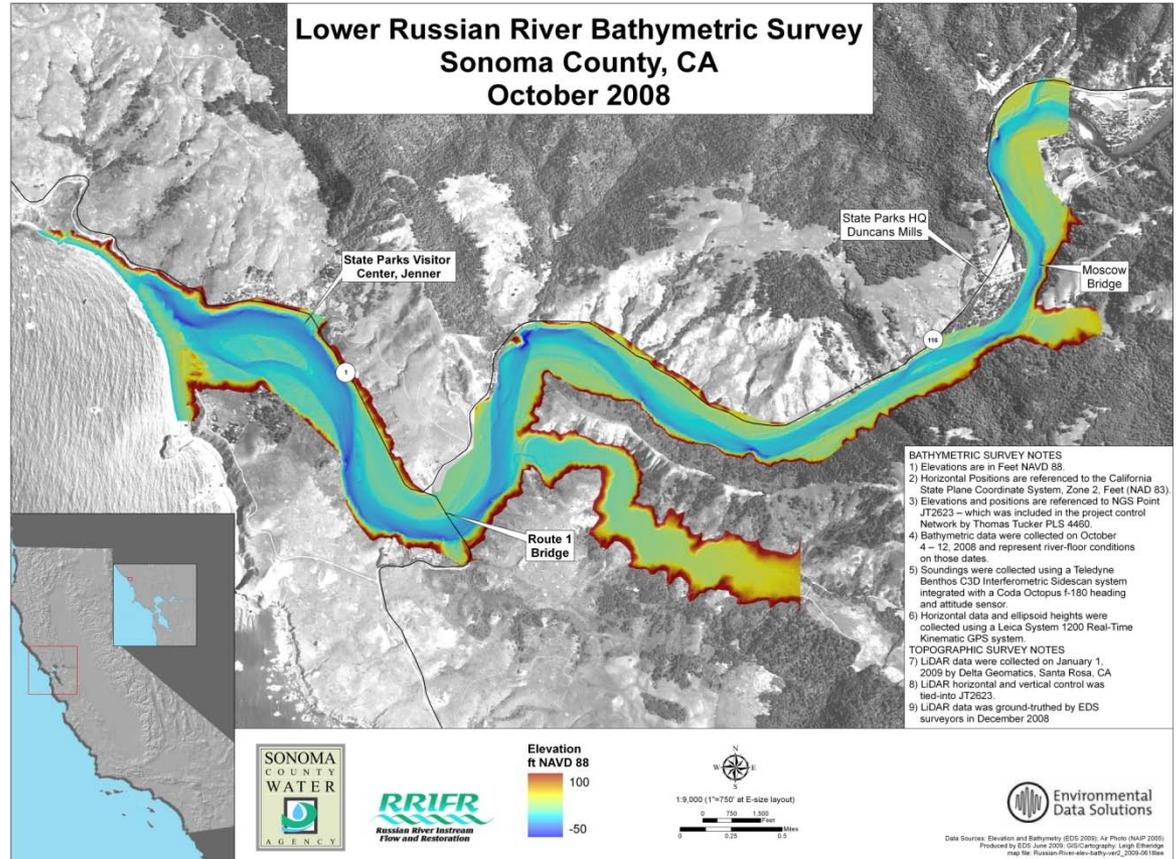
Management Tools

- Data development
- Monitoring
- Collaboration
- Outreach



Data Development

- Bathymetry
- Beach topo mapping
- Circulation



Monitoring



Collaboration and Outreach

- Universities and labs
- Consultants
- Volunteers
- Communication



2013 Management Season

- Jetty feasibility study
- Biological monitoring
- Water quality monitoring
- Physical processes



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