



North Bay Watershed Association
2016 Conference - April 22, 2016

Sonoma Supervisor David Rabbitt, Chair North Bay Water Reuse Authority



NORTH BAY WATER REUSE PROGRAM
Expanding Water Supplies with Regional Reuse

The North Bay Water Reuse Authority

- Marin, Sonoma and Napa Counties
- North Marin Water District
- Marin Municipal Water District
- Sonoma County Water Agency
- Sonoma Valley County Sanitation District
- Novato Sanitary District
- Novato Sanitary District
- Las Gallinas Valley Sanitary District
- Napa Sanitation District
- City of Petaluma
- American Canyon



NORTH BAY WATER REUSE PROGRAM
Water Supply Reliability through Regional Reuse



The NBWRP has Value

- The Program adds value to the region:
 - Regional identity
 - Forum to work together to address water supply issues
 - Sustainable water supply = strong economy
 - Reduces reliance on inconsistent surface water supply
 - Ability to capture and distribute funding
 - Provides ‘economies of scale’ where all agencies – regardless of size – have access to resources that support project implementation



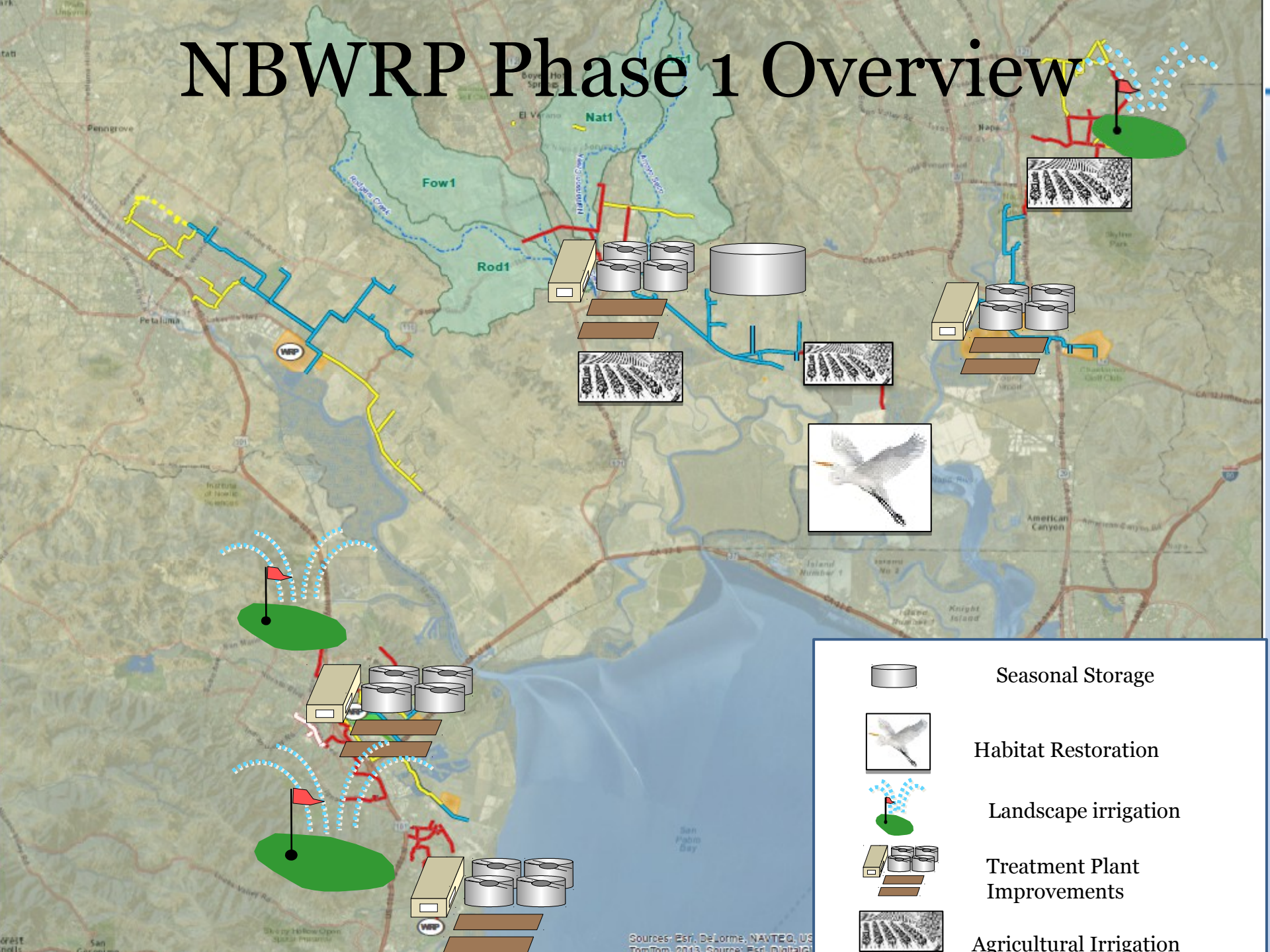







NBWRA Accomplishments

- Member Agencies are constructing \$104,000,000 in recycled water infrastructure that significantly contributes to the region's water supply reliability, quality of life and vibrant economy through:
 - Urban potable offsets
 - Irrigation supplies for agriculture
 - Relief from surface diversions, pumping groundwater and associated salt water intrusion
 - Environmental restoration at Napa-Sonoma Salt Marsh
 - Riparian habitat and fisheries recovery from reduced stream diversions



NBWRP Phase 1 Overview



	Seasonal Storage
	Habitat Restoration
	Landscape Irrigation
	Treatment Plant Improvements
	Agricultural Irrigation

Sources: Esri, DeLorme, NAVTEQ, US TomTom, 2013, Source: Esri, DigitalGlobe



Summary of Phase 1

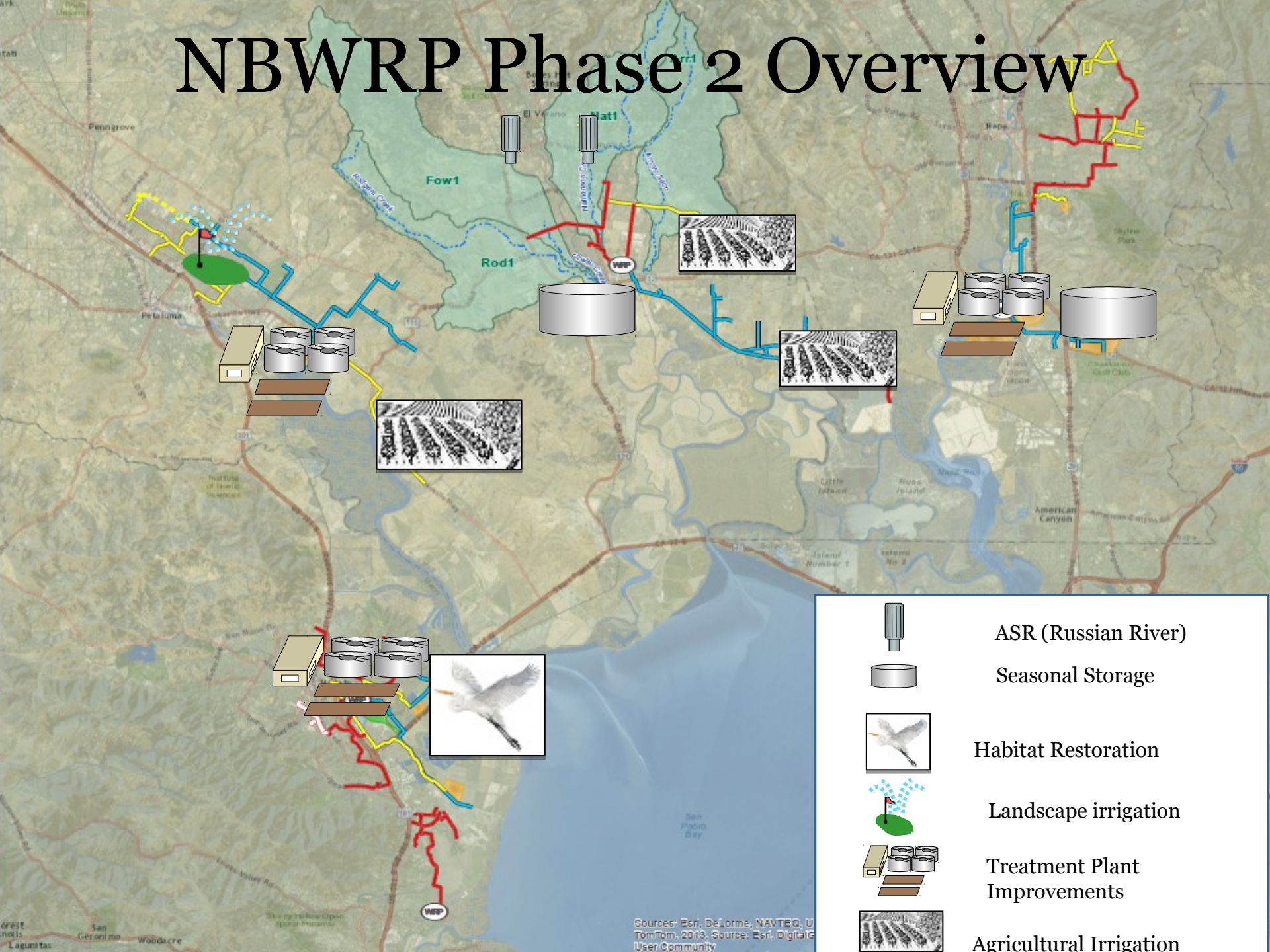
- Marin County
 - WW Treatment Plant upgrades
 - Landscape irrigation

- Sonoma County
 - WW Treatment Plant upgrades
 - Seasonal recycled water storage reservoir
 - Agricultural irrigation
 - Napa-Sonoma Salt Marsh Restoration

- Napa County
 - WW Treatment Plant upgrades
 - Agricultural irrigation
 - Landscape irrigation



NBWRP Phase 2 Overview



ASR (Russian River)



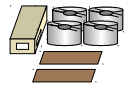
Seasonal Storage



Habitat Restoration



Landscape irrigation



Treatment Plant Improvements



Agricultural Irrigation

Sources: Esri, DeLorme, NAVTEQ, U TomTom, 2013. Source: Esri, DigitalG User Community



Summary of Phase 2 – Currently in Study Phase

- Marin County
 - WW Treatment Plant upgrades
 - Environmental restoration

- Sonoma County
 - WW Treatment Plant upgrades
 - Agricultural irrigation
 - Landscape irrigation
 - Seasonal recycled water storage
 - Aquifer storage and recovery

- Napa County
 - WW Treatment Plant upgrades
 - Seasonal recycled water storage





NBWRA Accomplishments

□ Funding Summary

- From 2002-2015 member agencies have invested \$9.85M in supporting the Program and studies
- From 2002-2015 member agencies have received \$34.75M in state and federal grant assistance

□ Benefits to the region beyond the dollar value of projects:

- Improved water quality and quantity - 30,000 AFY 'new' water
- Contributions toward a stable water supply = strong economy, vibrant communities





Closing Comments

- The Program provides value and has accomplished a great deal
- As we finalize Phase 2 projects there will still be recycled water available to put to use
- Our work continues as we investigate options that add both resilience and reliability to the North Bay's water supply portfolio





Questions?

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