Finding balance when you are stuck in a marsh: Navigating the complexities of Upper Newport Bay for effective invasive plant management

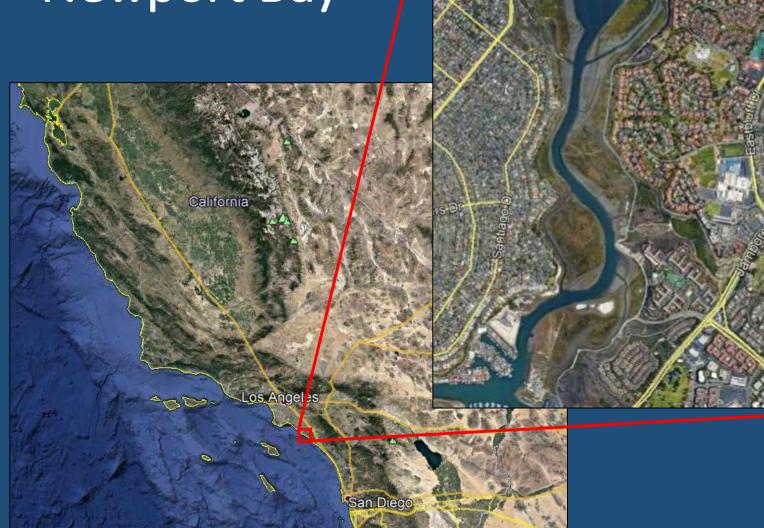
Amanda C. Swanson and Josie Bennett

Newport Bay Conservancy

California Invasive Plant Council Symposium
October 2019



Upper Newport Bay



What challenges does Upper Newport Bay face?

- History of disturbance
- Urban development
- Extremely sensitive habitat
- Complex land ownership, stakeholder, and partner relationships

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Complex land ownership, stakeholder, and partner relationships

- <u>Landowners</u>: often have some degree of involvement with land management
- Resource agencies: issue permits for restoration and land management activities
- The public: the City (council, committees), residents and homeowners, volunteers
- Partners: other nonprofits, educational and other independent institutions
 - Funders

Upper Newport Bay



Resource agencies









PublicWorks











Direct landowner













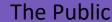






















Partners

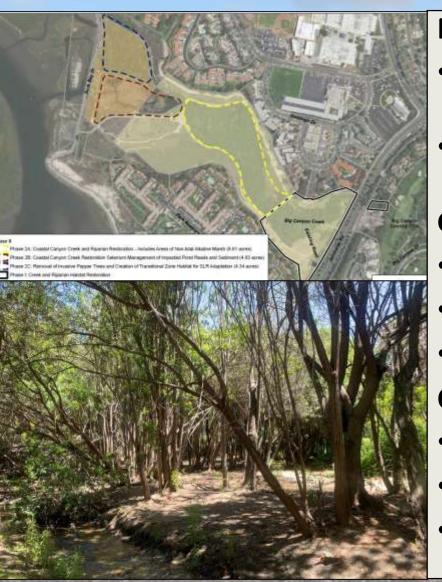
Big Canyon Restoration and Habitat Adaptation Project

Monitoring and management of invasive Limonium

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Big Canyon Habitat Restoration and Adaptation Project



Major Site Issues

- Big Canyon Creek with altered hydrology and dry weather flows
- Invasive Brazilian peppertrees dominate

Goals

- Remove all invasive plants
- Restore hydrology
- Reestablish native communities

Challenges

- Multiple landowners
- Considered tidelands
- Homeowners immediately adjacent

Big Canyon Habitat Restoration and Adaptation Project



Approach

- Technical Advisory Committee
 - all stakeholders and interested partners
- Strong correspondence with permitting agencies
- Building relationships with City staff and committees

 Giving presentations and creating "fact sheet" for neighboring homeowners

Big Canyon Restoration and Habitat Adaptation Project

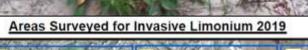
Monitoring and management of invasive Limonium

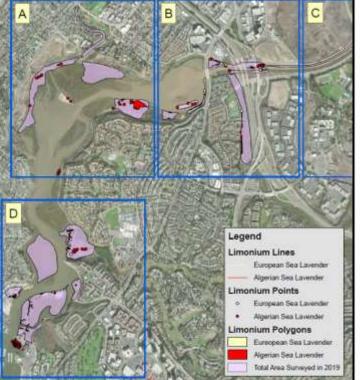
Big Canyon Restoration and Habitat Adaptation Project

Monitoring and management of invasive Limonium

Invasive Limonium







Major Site Issues

- Invasive *Limonium* inhabits sensitive habitat throughout Upper Newport Bay
- L. ramosissimum and L. duriusculum

Goals

- Survey new areas
- Treat known populations
- Re-survey treated areas

Challenges

- Multiple landowners throughout bay and upstream
- Homeowners throughout Bay
- Limited person power

Invasive Limonium



Approach

- Weekly community-based restoration events with regular volunteers
- Hosting larger groups when available
- Hiring specialized interns and contractors to survey, map and help treat
- Work with other partners to divide and conquer surveying and treatment
- Educational signage

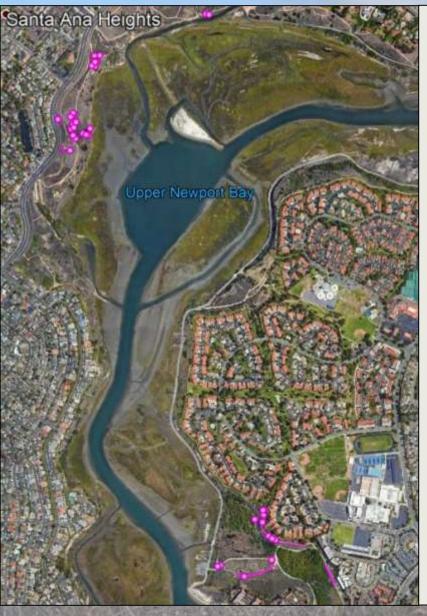
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EDRR of Volutaria tubuliflora



Major Site Issues

Two large populations in Bay on different properties

Goals

- To eradicate from Upper Newport Bay
- Survey new locations
- Treating all infested areas

Challenges

- Conducting bay-wide surveys
- Coordination and data sharing

EDRR of Volutaria tubuliflora



Approach

- Strategic meetings with stakeholders
- Actionable project activities
- Establish method of information sharing and coordination
- Coordinating treatments with subcontractors and volunteers

Conclusion

 Important to understand the dynamics between stakeholders and partners

- Balancing and maintaining these relationships increases project success
- Know your audience to highlight their priorities and for effective communication



