



Structural BMP Compliance Approach for California State Parks in 5+ ASBS

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CASQA 2015 - Monterey

Project Team

- State Parks, Facilities Management Division (FMD), Stormwater Program
- Water Programs at Sacramento State
- AMEC Foster Wheeler

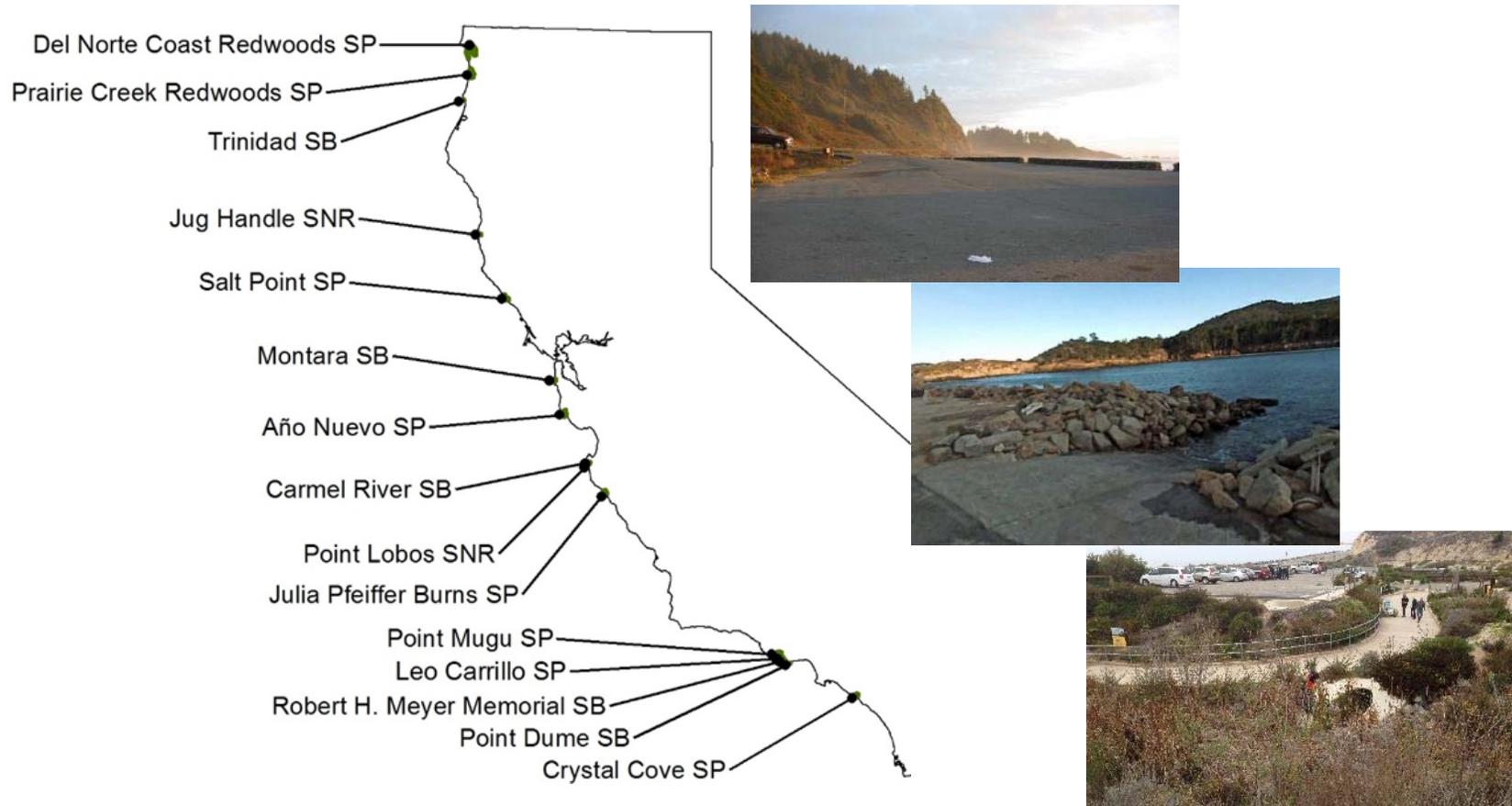
Objectives

- Review the ASBS Timeline for Phase II
- Contrasting ASBS Submittal Requirements
- Review Parks and Recreation Facilities Requirements
- Overview of the BMP retrofit program
- Identify potential BMP partnership opportunities

Timeline

- 2009 letter accepts State Parks application
- 2012 General Exception 2012-0012 adopted, but requires permit coverage
- 2013 Phase II permit adopted
- 2014/15 State Parks receives initial funding

15 Phase II ASBS Park Units



Submittal Requirements

**I.A.3.b Compliance Schedule,
Resolution No. 2012-0031**

*“...a draft written ASBS
Compliance Plan...”*

**I.A.3.b Compliance Schedule,
Phase II, Attachment C**

*“...a written ASBS
Compliance Plan...”*

Submittal Requirements

I.A.3.b Compliance Schedule, Resolution No. 2012-0031

*“The final ASBS Compliance Plan, including a description and final schedule for structural controls **based on the results of runoff and receiving water monitoring**, must be submitted within thirty (30) months from the effective date of the Exception”*

I.A.3.b Compliance Schedule, Phase II, Attachment C

“The ASBS Compliance Plan shall include a time schedule to implement appropriate non-structural and structural controls (implementation schedule) to comply with these special conditions.”

Parks and Recreation Facilities

Attachment C, II.A.6

*...include BMPs or Management Measures/Practices to address runoff from parking areas and other developed features to ensure that the runoff does not alter natural water quality in the affected ASBS. BMPs or Management Measures/Practices shall include measures to reduce pollutant loading in runoff to the ASBS through **installation** of natural area buffers (LID), treatment, or other appropriate measures.*

BMP Retrofit Strategy

- Inventory all parking lots
- Identify direct drainage to ASBS
- Identify substantial erosion prone areas with anthropogenic influence



Retrofit List

- Del Norte State Park (Redwood National Park ASBS): Parking lot near Wilson Creek
- Prairie Creek State Park (Redwood National Park ASBS): Beach Road parking lot
- Salt Point State Park (Gerstle Cove ASBS): Gerstle Cove visitor center parking lot
- Año Nuevo State Park and Reserve (Año Nuevo ASBS): Wheelchair Access parking lot
- Point Lobos State Natural Reserve (Point Lobos ASBS): 9 parking lots!

Retrofit list (cont.)

- Point Mugu State Park (Laguna Point to Latigo Point ASBS): Sycamore Canyon parking lot
- Leo Carrillo State Park (Laguna Point to Latigo Point ASBS): 2 parking lots
- Robert H. Meyer Memorial State Beach (Laguna Point to Latigo Point ASBS): 3 parking lots
- Point Dume State Beach (Laguna Point to Latigo Point ASBS): Cliffside Drive parking lot
- Crystal Cove State Park (Irvine Coast ASBS): 4 parking lots

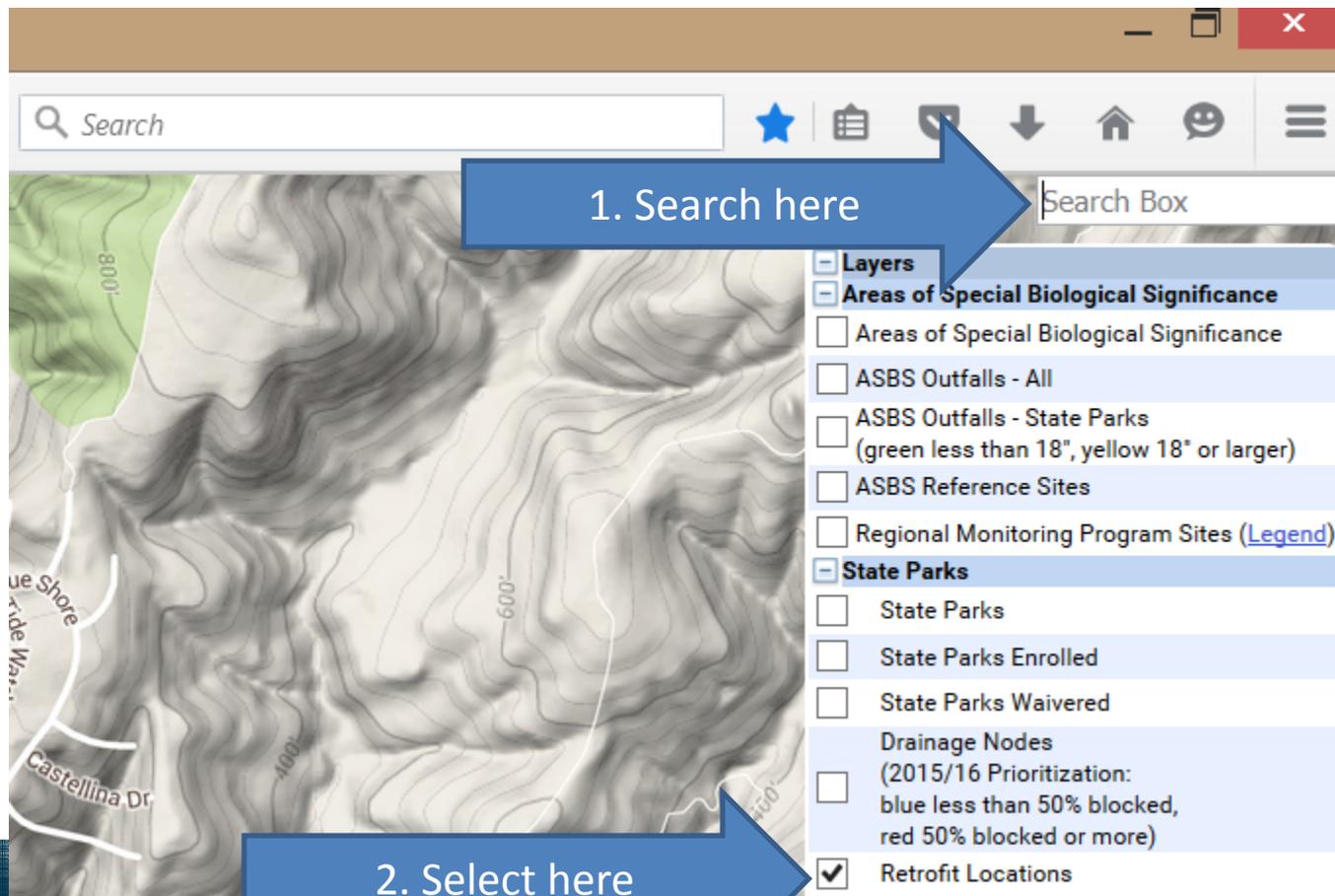
BMP Retrofit Siting Study

- Hierarchy of BMP technologies considered:
 - Stormwater capture and use (groundwater recharge)
 - Bioretention and other LID techniques that maximize infiltration
 - Stormwater filtration BMPs



Retrofit Locations

<http://webpages.csus.edu/~smeyer/stateparks.htm>



Wilson Beach



<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Del Norte State Park

Gerstle Cove Visitor Center



<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Salt Point State Park

Wheelchair Access Lot



<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Ano Nuevo State Park

9 Lots at Point Lobos



<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Point Lobos State Natural Reserve

Sycamore Canyon

Highway

Sycamore Canyon
Parking Lot



<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Point Mugu State Park

Leo Carrillo



<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Leo Carrillo

Robert H. Meyer: 3 lots



<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Robert H. Meyer

Cliffside Dr.



<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Point Dume State Beach

Crystal Cove: 4 lots

Pelican Point
Parking Lot 3

Pelican Point
Parking Lot 4

Reef Point
Parking Lot 1

Reef Point
Parking Lot 2

<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Crystal Cove SP

Carmel River Parking: Erosion Prone Area



Carmel River
Parking Lot

<http://webpages.csus.edu/~smeyer/stateparks.htm>
Search: Carmel River State Beach

Next Steps

- Compliance Plans: **Complete!**
- QAPP: under SWRCB review
- 2015/16 wet season: begin monitoring
- 2016/17: begin BMP planning
 - Siting and design
 - Permitting: CEQA, drainage easements, Coastal Commission, etc.
 - Construction via district contracting
 - Construction management via A&E contract to be advertised late 2016.

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