

San Joaquin River Restoration Program Mendota Pool Bypass and Reach 2B Improvements Project

Stakeholder Meeting

August 26, 2013 1:30 pm

Alfred Firebaugh Community Center Firebaugh, CA





- 1. Introductions
- 2. Program Update
- 3. Mendota Pool Bypass/Reach 2B Project Update
- 4. Mendota Pool Bypass/Reach 2B Geotechnical Investigations
- 5. Meeting Wrap-Up and Next Steps



Introductions





Program Update





Settlement Goals

- Restoration Goal
 - To restore and maintain fish populations in "good condition" in the main stem of the San Joaquin River below Friant Dam to the confluence of the Merced River, including naturally reproducing and self-sustaining populations of salmon and other fish.
- Water Management Goal
 - To reduce or avoid adverse water supply impacts to all of the Friant Division long-term contractors that may result from the Interim Flows and Restoration Flows provided for in the Settlement.



Restoration Goal Activities

- Improve channel/structures to convey flows and improve habitat
 - Reach specific projects moving forward:
 - Reach 2B working on Draft EIS/R
 - Reach 4B working on Alternatives Evaluation & Project Description
 - Arroyo Canal/Sack Dam Final EA/IS published in May 2013
- Fisheries Activities
 - NMFS released draft 10(j) and draft 4(d) rules and draft EA for public review in January 2013
 - Spring-run salmon broodstock activities underway
- Settlement requires 10 specific channel and structural improvement projects to address:
 - Channel capacity limitations
 - Fish habitat limitations
 - Fish passage and entrainment issues
- Combined into 4 major projects
 - Reach 2B, Reach 4B, Arroyo Canal and Sack Dam, Salt and Mud Slough Seasonal Barriers



Mendota Pool Bypass/Reach 2B Project Update





Reach 2B Project Update

Today's Topics:

- EIS/R process overview and schedule
- Landowner Recommended Alternative review
- Flood management operations and coordination

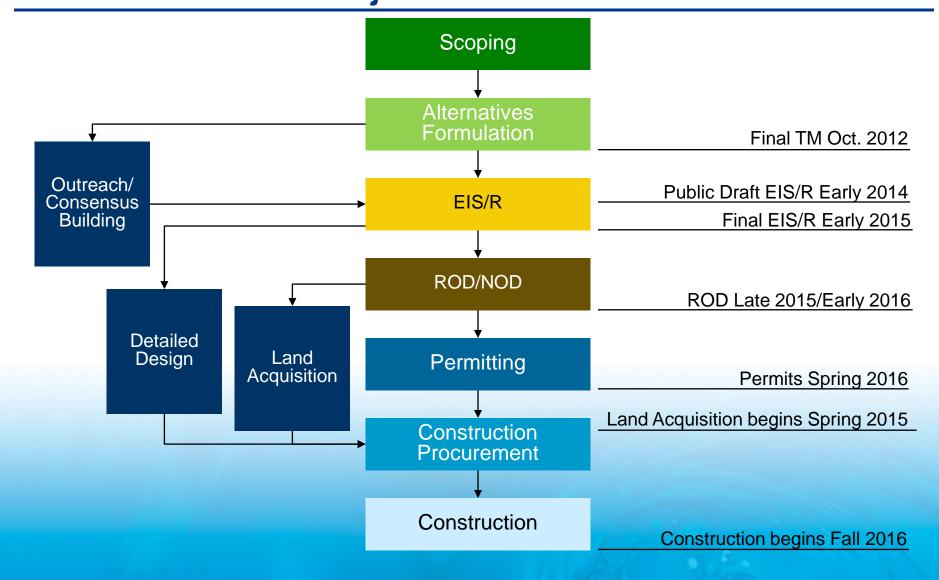
SAN JOAQUIN RIVER RESTORATION PROGRAM

Reach 2B Project Update EIS/R Process and Schedule



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Reach 2B Project Update Project Process and Schedule





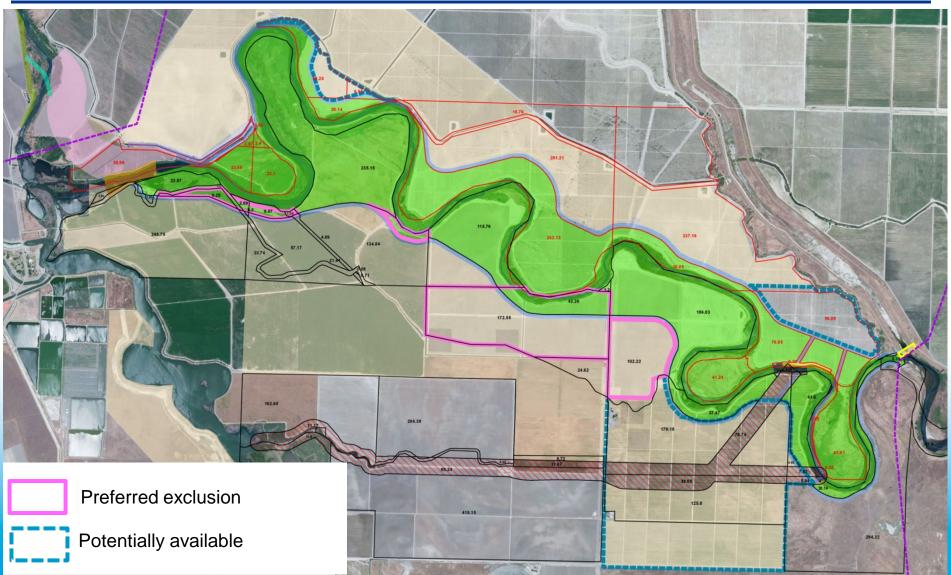
Reach 2B Project Update

Landowner Recommended Alternative Review

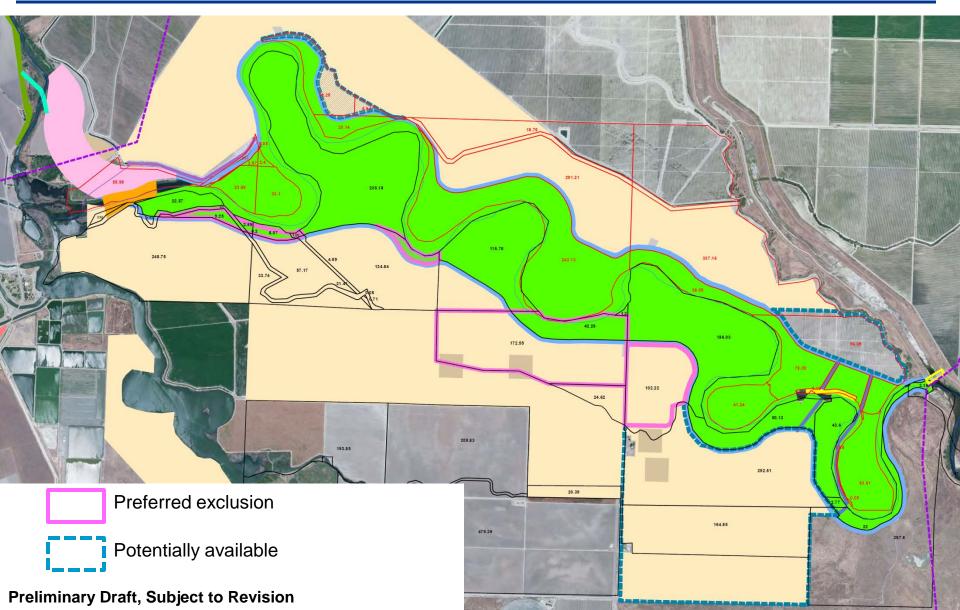
Landowner comment summary:

- Feel it is paramount to address flood control and structural issues
- Created a map identifying lands they wish to retain and other lands that are open to Program acquisition
- Expect full mitigation for program impacts, particularly:
 - City of Mendota wells on BB Limited property
 - Mendota Pool Group ability to pump groundwater to Mendota Pool
- Uniformly in opposition to Fresno Slough Dam
- Prefer appraisals using income based approach
- Prefer to interact with Program as a landowner group

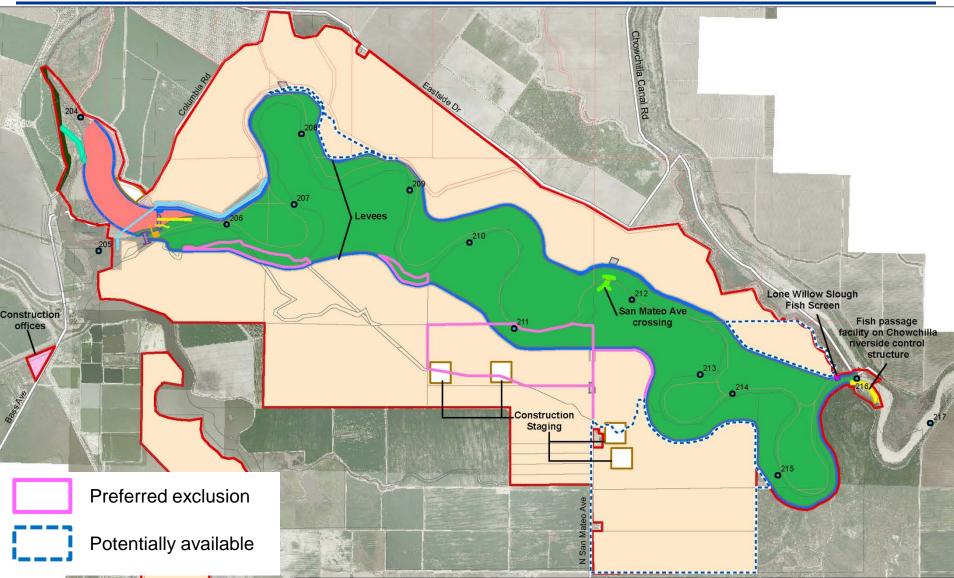
Reach 2B Project Update Landowner Recommended Alternative Review



Reach 2B Project Update Landowner Recommended Alternative Review



AN DAQUIN RIVER Restoration PROGRAM A Reach 2B Project Update Landowner Recommended Alternative Review



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Reach 2B Project Update Flood Management Operations & Coordination

LSJLD comment summary:

- District objects to the removal of the San Joaquin River control structure because:
 - Existing twin-structure configuration allows flood flows to be monitored simultaneously for safe and consistent operation
 - Existing structure is a grade-control point and removal could induce channel base level lowering and incision
 - It is unknown who would operate a new structure
 - Sediment and debris management is a concern
 - New levees between Reach 2A and the new structure would need to be designed for Reach 2A water levels
- Concerned about how fish passage would be accomplished with SJR flood flows diverted into Chowchilla Bypass
- Concerned about loss of revenue



Mendota Pool Bypass/Reach 2B Geotechnical Investigations

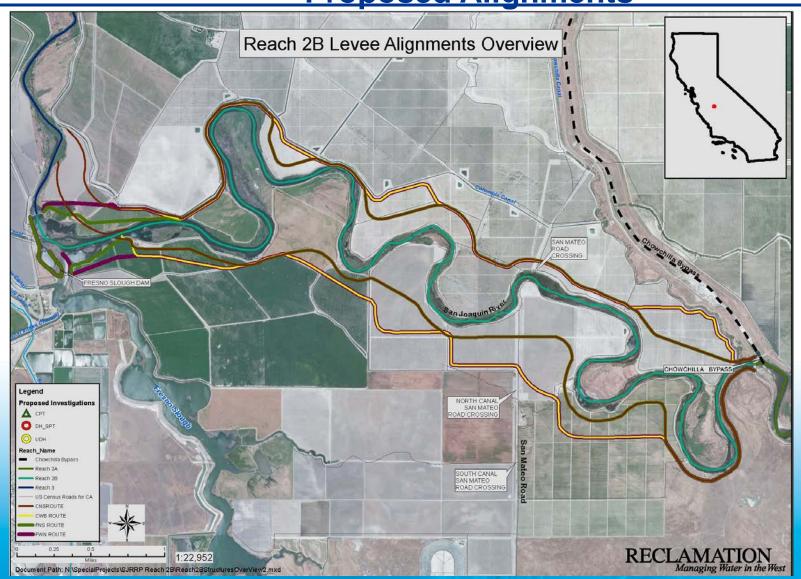


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Reach 2B Geotech Investigations Proposed Alignments



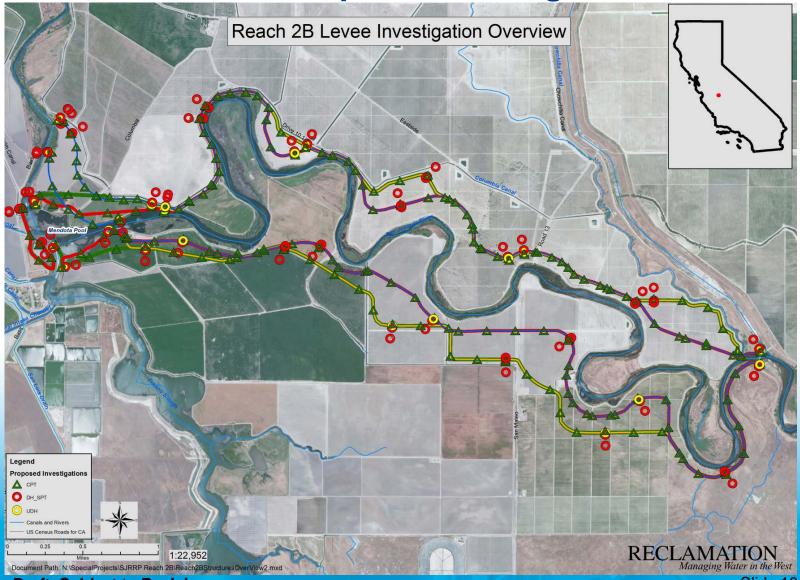
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Reach 2B Geotech Investigations Proposed Investigations



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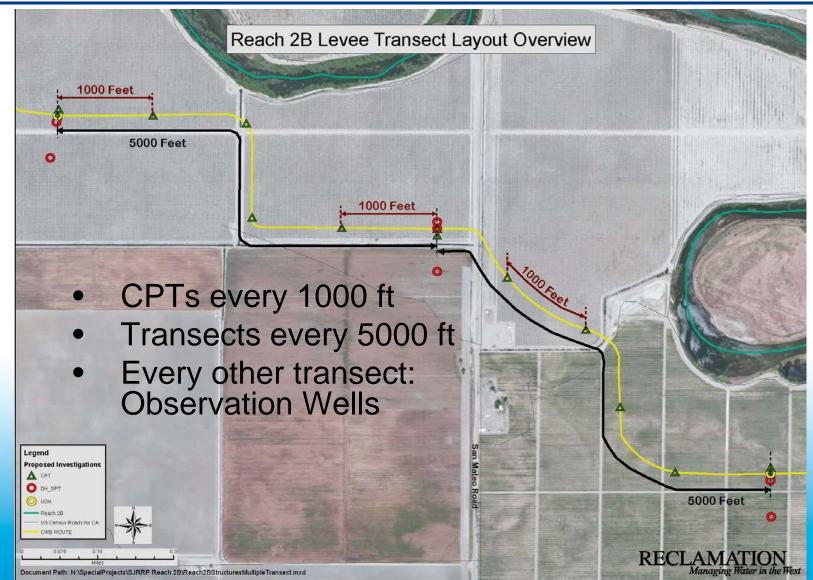
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Reach 2B Geotech Investigations Scope of Work

- 230 Cone Penetration Test (CPT) Holes
- 135 Drill Holes (DH) along Transects
 - Standard Penetration Test (SPT)
 - Core Samples, Undisturbed
 - Some Completions as Observation Wells

Reach 2B Geotech Investigations Scope of Work



Reach 2B Geotech Investigations Transects

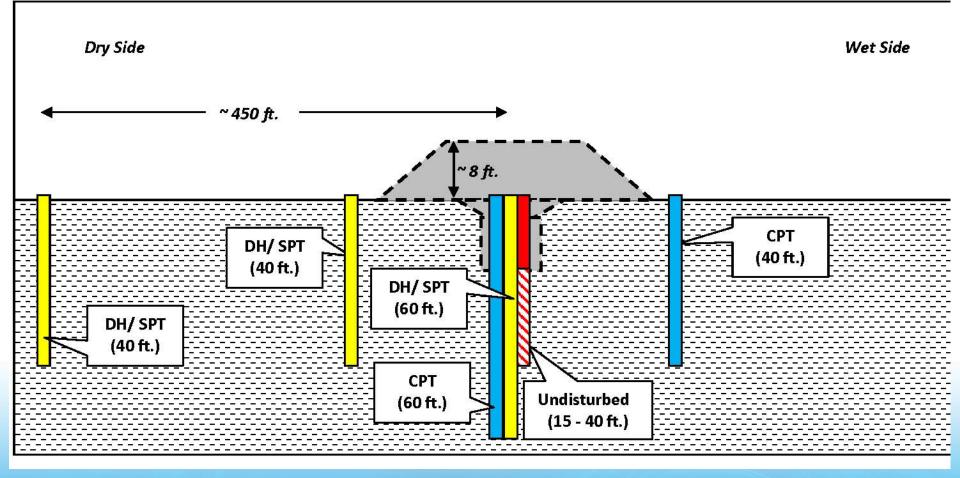


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Reach 2B Geotech Investigations Cross Section Through Transect





Reach 2B Geotech Investigations Course of Action

- Right of Entry
- Preliminary Site Reconnaissance
- Underground Utilities Mapping
- Landowner Coordination
- Environmental and Cultural Surveys
- Begin Drilling Investigations



Reach 2B Geotech Investigations Field Reconnaissance

Walking the Site



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Locked Gates

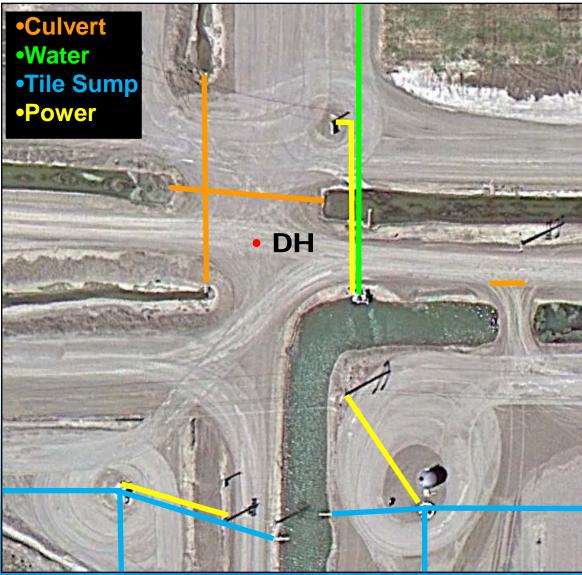
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Reach 2B Geotech Investigations Map of Subsurface Lines





Reach 2B Geotech Investigations Landowner Coordination

Irrigation Schedules

Harvesting Schedules

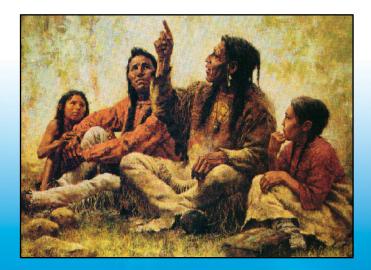
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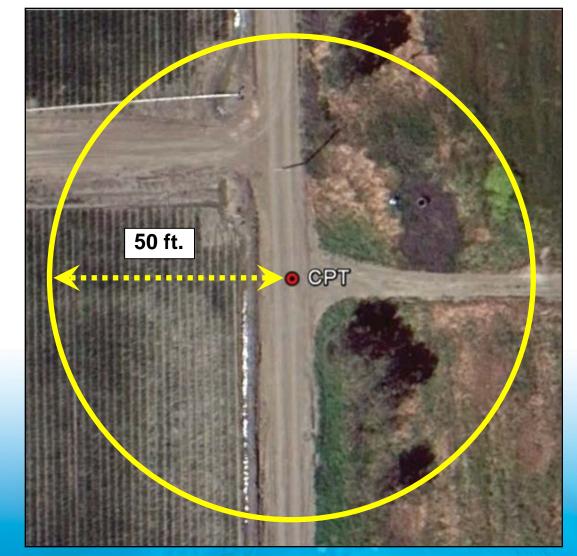
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Reach 2B Geotech Investigations Environmental and Cultural Surveys







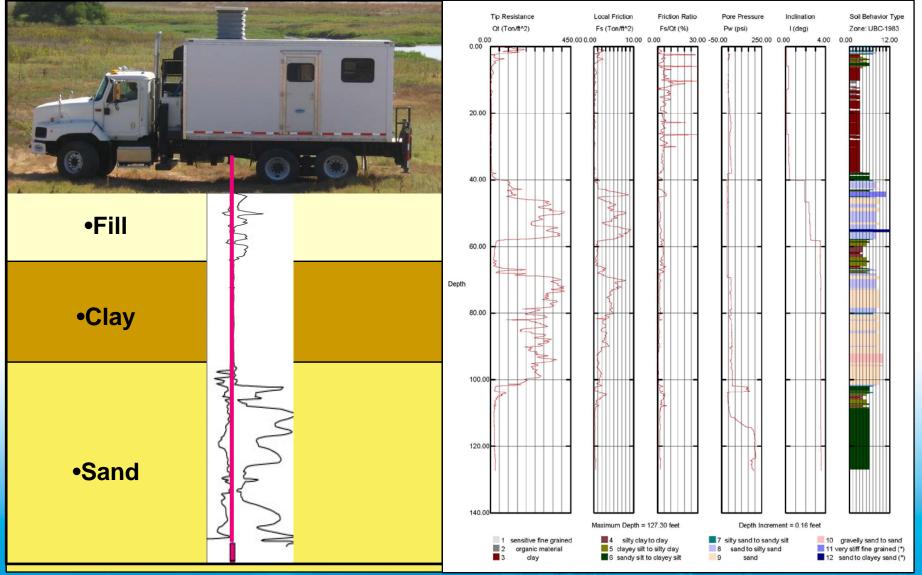


Reach 2B Geotech Investigations Drilling Methods

Cone Penetration Test (CPT) Holes 1½-inch diameter Approximately 40 feet deep

Drill Holes

8½-inch diameter Approximately 40 feet deep Reach 2B Geotech Investigations



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Reach 2B Geotech Investigations Cone Truck (CPT)



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Reach 2B Geotech Investigations Backfilled CPT Hole



Completed CPT hole backfilled with granular bentonite



Reach 2B Geotech Investigations Hollow Stem Auger Drilling





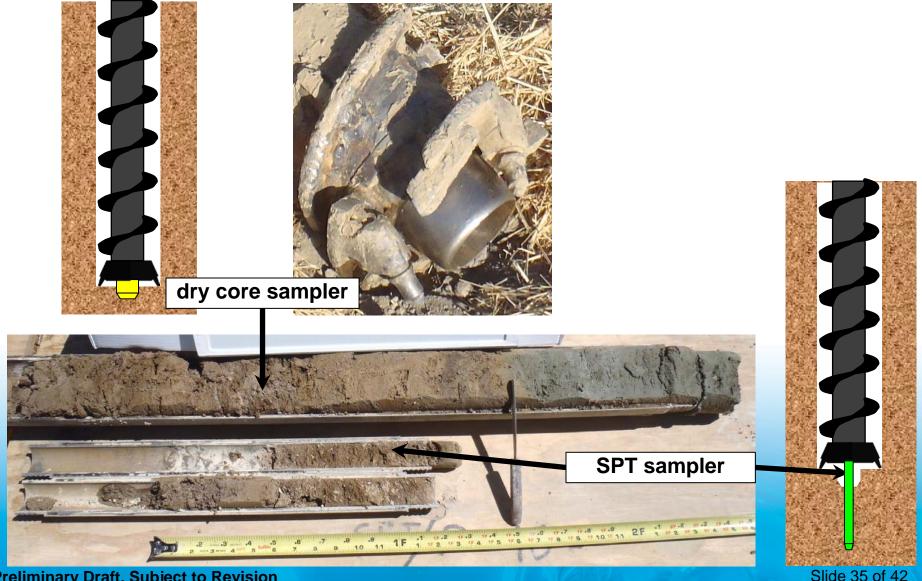
Reach 2B Geotech Investigations Soil Logging and Testing



8¹/₂-inch diameter auger



Reach 2B Geotech Investigations Soil Logging, Sampling and Testing





Reach 2B Geotech Investigations Observation Wells: Above Ground View







Reach 2B Geotech Investigations Observation Wells: Flush Mount





Reach 2B Geotech Investigations Field Work Schedule

- 10 Days On (Tuesday through the following Thursday) and 4 Days Off (Friday through the Monday)
- 10 Hour Days (7:00 a.m. to 5:00 p.m.)
- No work during the week of Thanksgiving, Christmas, and New Year's
- Tentative Start Date October 2013

Reach 2B Geotech Investigations Schedule Impacts



- Weather
- Equipment Breakdowns
- Landowner Concerns

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Review Assignments & Follow-up



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Questions?





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