Dredging and Beneficial Reuse Workshop

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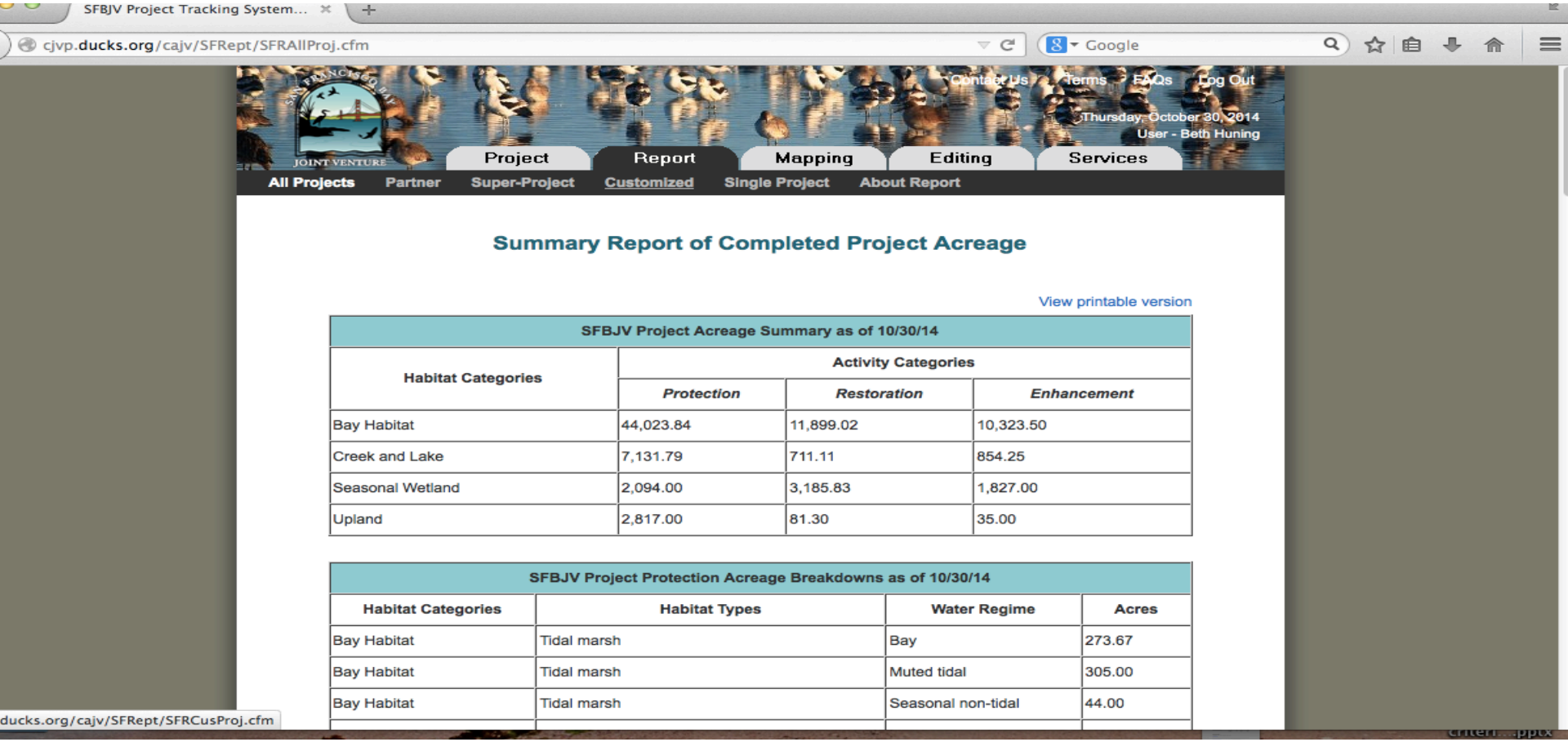
Bay Planning Coalition

information
Coordination
forum
issues
organizations
working
science
needs
wetland
work
common-goals
partners
Bay
Bringing
multiple
efforts
agencies
region
speak
coordinated
opportunities
support
JV
conservation
diverse
across
project
effort
provide
approach
voice
SF
independent
solve
protection
stakeholders
habitat
collaborative
on-the-ground
resources
involved
policy
together
people
restoration
projects
SF BAY ROCKS!

SFBJV Wetland Habitat Goals



SFBJV Project Acreage Summary as of 10/30/14

Habitat Categories	Activity Categories		
	Protection	*Restoration*	*Enhancement*
Bay Habitat	44,023.84	11,899.02	10,323.50
Creek and Lake	7,131.79	711.11	854.25
Seasonal Wetland	2,094.00	3,185.83	1,827.00
Upland	2,817.00	81.30	35.00

SFBJV Project Protection Acreage Breakdowns as of 10/30/14

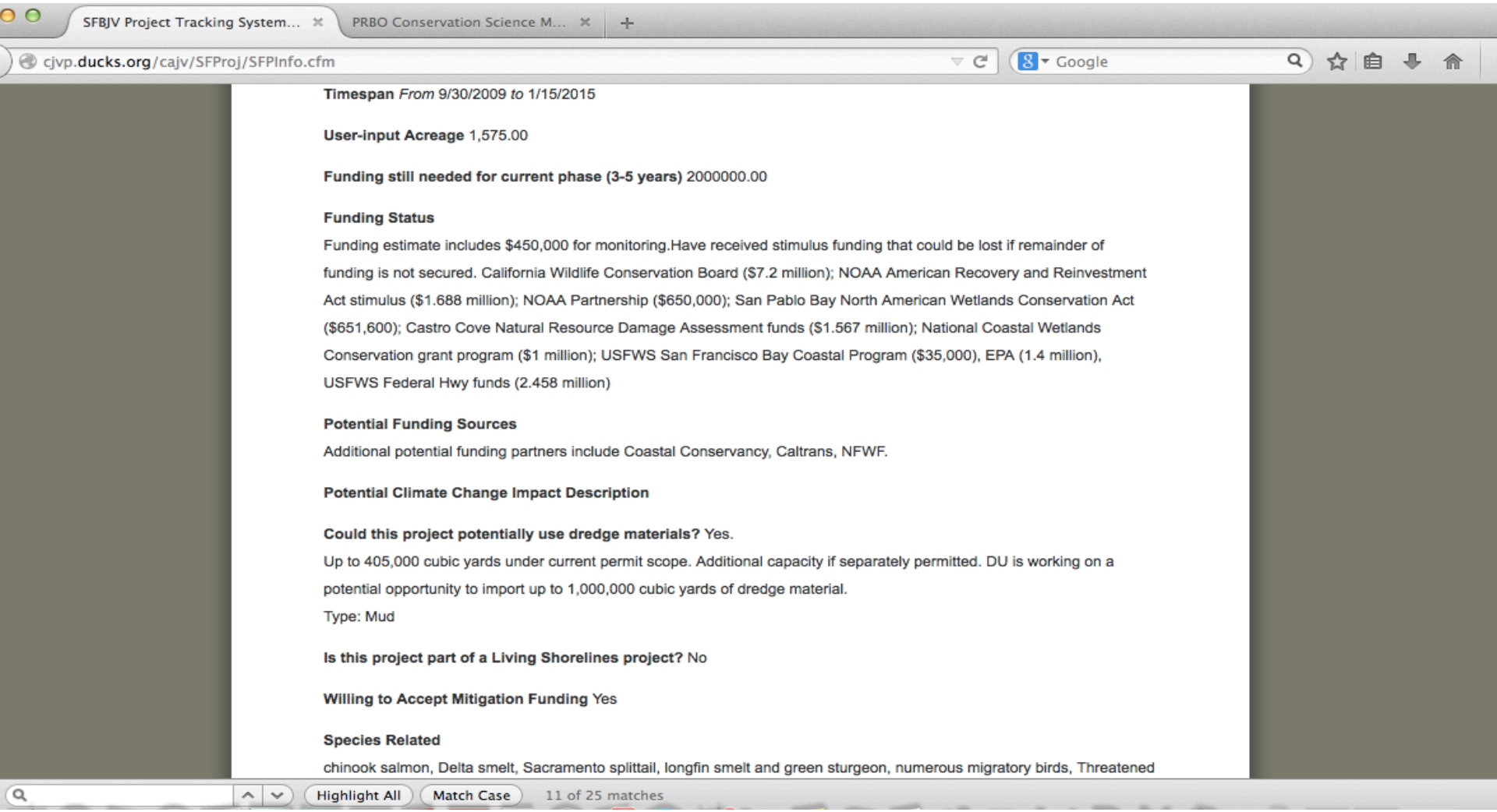
Habitat Categories	Habitat Types	Water Regime	Acres
Bay Habitat	Tidal marsh	Bay	273.67
Bay Habitat	Tidal marsh	Muted tidal	305.00
Bay Habitat	Tidal marsh	Seasonal non-tidal	44.00

Sedi-Matchmaking

Do you like long walks on the beach?

Or maybe you are just looking for the perfect grain size. We may just have the match for you….

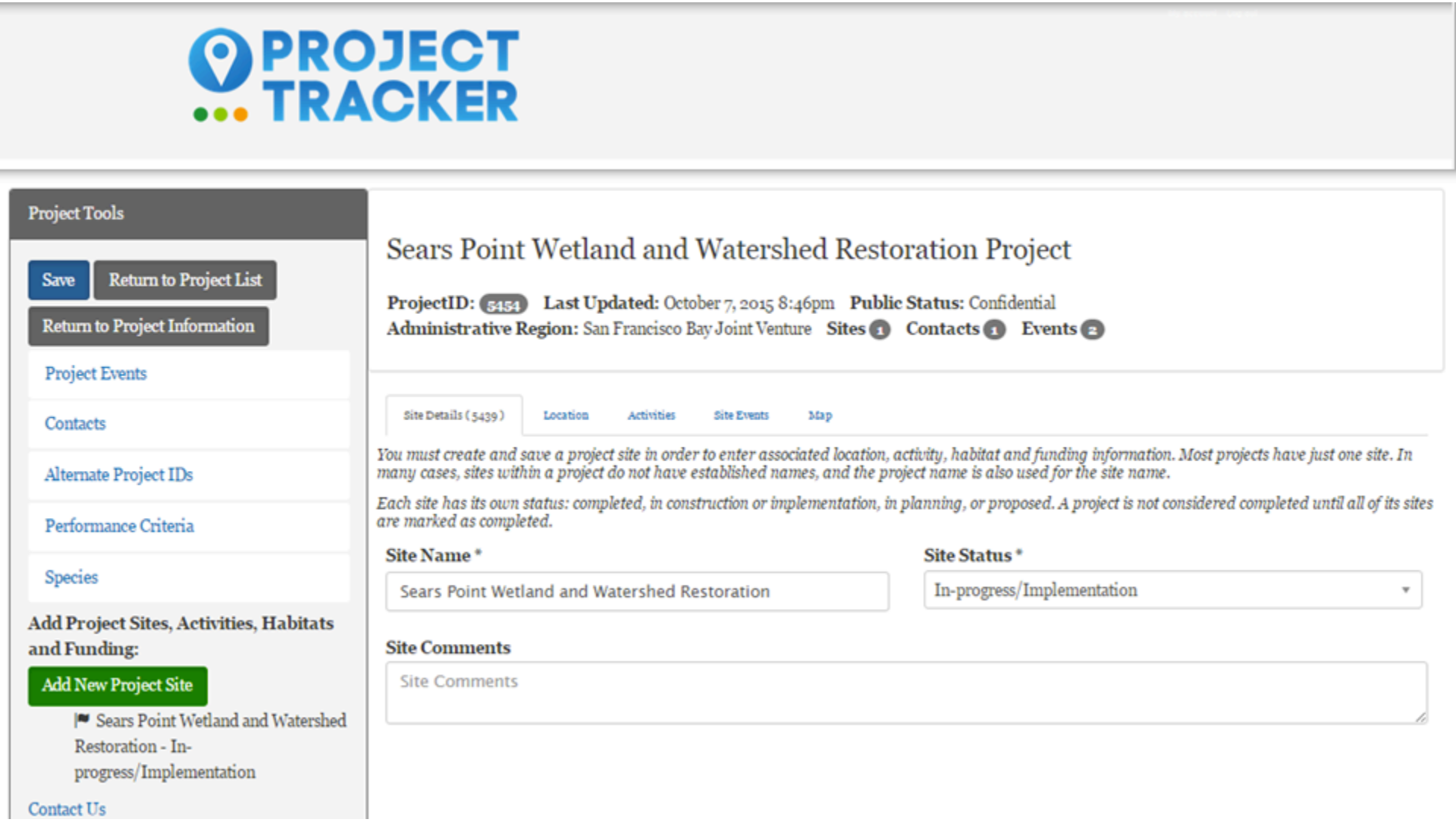
Tracking Restoration Project Sediment Needs 1.0

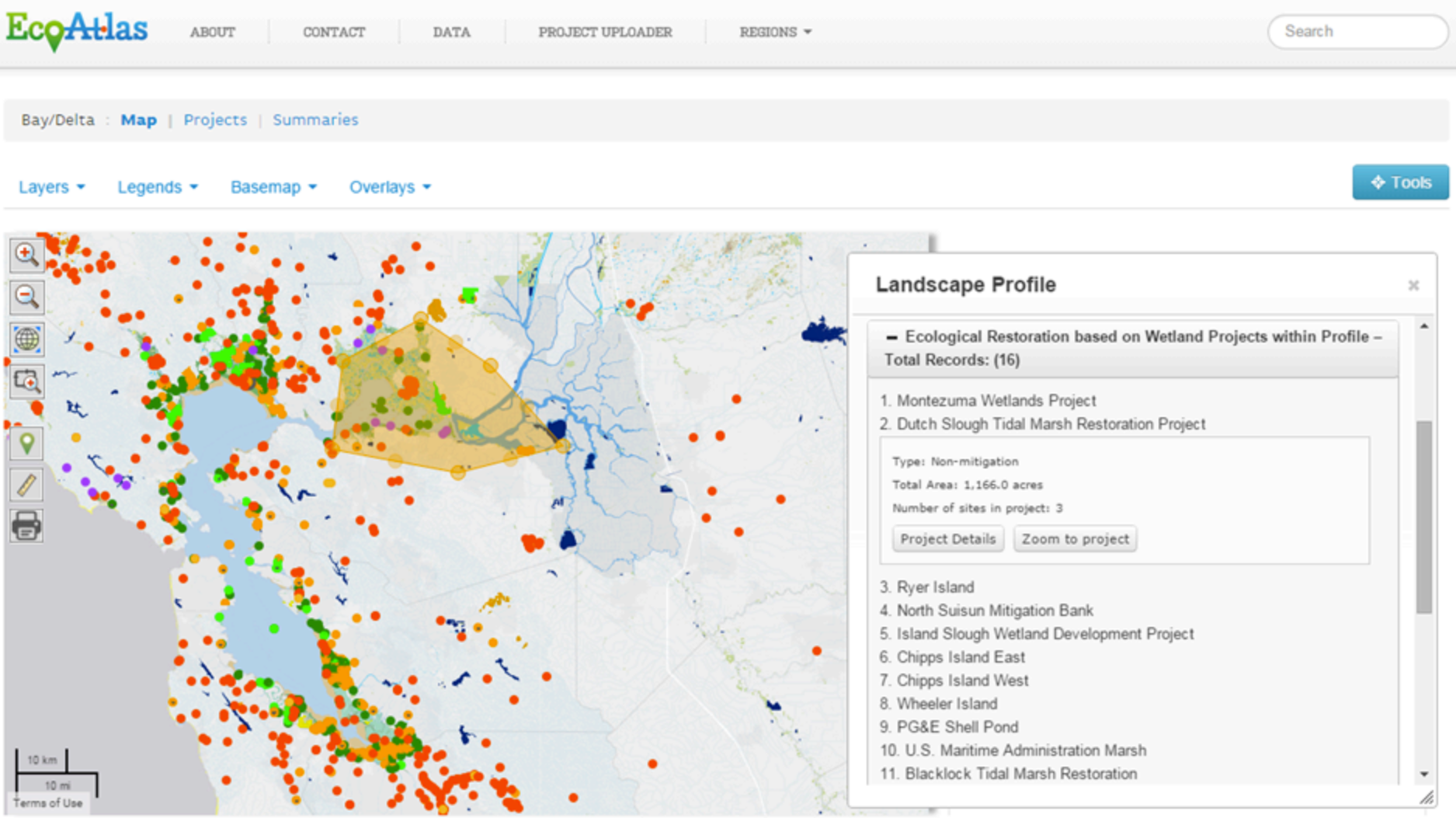


SediMatch 1.0

Project Name	SFBJV Region	Contact	Phone	Email	Sediment need? y/n	Quantity/ Volume	Type(s) - gravel, sand, mud	Off-loading capability	Timing	
Antioch Dunes	North Bay	Louis Terrazas	707-769-4200	louis_terrazas@fws.gov						
Aramburu Island	North Bay	Rachel Spadafore	415-388-2524 x 104	rspadafore@audubon.org	No immediate needs					
Breuner Marsh	Contra Costa Shoreline	Brad Olson			No immediate needs					
Cullinan Ranch	North Bay	Don Brubaker	707-769-4200	Don_Brubaker@fws.gov						
Cullinan Ranch	North Bay	Craig Garner	801.803.4361	cgarner@ducks.org	yes	300,000 CY	Upland and dredge material	The material source provider will be responsible for providing off-loading facilities/infrastructure. Potential off-loading capabilities include: delivery by trucks, pumping material to site via a temporary off-loading facility in Napa River (contractor/material provider will be responsible for installing the temporary off-		
Cullinan Ranch	North Bay	Russ Lowgren	916-402-9979	rlowgren@ducks.org	yes	Up to 320,000 CY	Wetland surface or wetland foundation material	No existing infrastructure. Site is a subsided diked bayland. Permitted for pile installation and/or excavation needed along levee/dike for offloading of scows in Dutchman Slough (NW of Mare Island). Amending permit for Napa River offloading facility	Open	
Novato Creek Watershed	Central/ North Bay	Roger Leventhal	415-473-3249	roger.leventhal@gmail.com	No immediate needs					
Novato Creek Watershed	Central/ North Bay	Liz Lewis	415-499-7226	lizlewis@co.marin.ca.us	No immediate needs					
Petaluma River Farm	North Bay	JT Wick Brian Swedberg	707-799-7726 707-592-3104	brian@bergholdings.com jt@bergholdings.com	yes	8MCY wet 4MCY dry	Can accept any material that is suitable for aquatic disposal Sand is OK	Our offloader can handle large and small barges	Summer of 2014	

Tracking Restoration Projects 2.0




EcoAtlas
ABOUT
CONTACT
DATA
PROJECT UPLOADER
REGIONS
Search
Bay/Delta : Map | Projects | Summaries
Layers
Legends
Basemap
Overlays
Tools
Landscape Profile
– Ecological Restoration based on Wetland Projects within Profile – Total Records: (16)
1. Montezuma Wetlands Project
2. Dutch Slough Tidal Marsh Restoration Project
Type: Non-mitigation
Total Area: 1,166.0 acres
Number of sites in project: 3
Project Details
Zoom to project
3. Ryer Island
4. North Suisun Mitigation Bank
5. Island Slough Wetland Development Project
6. Chipps Island East
7. Chipps Island West
8. Wheeler Island
9. PG&E Shell Pond
10. U.S. Maritime Administration Marsh
11. Blacklock Tidal Marsh Restoration
10 km
10 mi
Terms of Use

Data Sets, Plans, & Informtion

- **Dredging Projects –** DMMO/LTMS
- **Restoration Projects –** SFBJV/EcoAtlas SFEI
- **Developing Regional Sediment Management Plan -** BCDC
- **Sediment Budgets -** BCDC, others?
- **Modeling of Future Marsh Scenarios –** Point Blue
- **South Bay Shoreline Study** - US Army Corps and SCVWD
- **Suspended sediment/Accretion rates -**SFEI
- **Shoreline Change analysis for SPB -** SFEI
- **Regional Shoreline & Flood Infrastructure Mapping for the SFBay -** SFEI
- **Past Flood Control Sediment Management -** SFEI
- **Historic and Current Channel Characteristics/Developing Regional Channel Typology -** SFEI
- **Water and Soil Quality** – DMMO/RMP
- **Sea Level Rise Modeling -** USGS
- **Coastal Hazards Adaptation Resiliency Group mapping and data gathering**?
- **Others?**

SediMatch Tool Information Needs-Restoration Projects

- Location
- Date Window
- Amount
- Type of Sediment
- Type of Equipment Required

SediMatch Tool Information Needs-Dredging Projects

- Location
- Work date window
- Amount
- Type of Sediment
- Timing of Permits

Field from LTMS Dredging Chart/ Table	Field from SFBJV Restoration Enhancement Project Database
PROJECT NAME	PROJECT NAME
CITY/ LOCALE	SFBJV Region/County/Lat Long
EPISODE [YEAR] VOLUME (Range in 1000 CYS)	SEDIMENT NEED Y/N- If Y, Quantity/Volume {NEW}
PERMITS OBTAINED	PERMITS OBTAINED
LAST DREDGED	
FREQUENCY (if known)	
CONTRACTOR (if known)	
EQUIPMENT	OFF LOADING CAPABILITY {NEW}
DISPOSAL SITE	

Field from LTMS Dredging Chart/Table	Field from SFBJV Restoration Enhancement Project Database
DMMO STATUS	
EST. START DATE	START DATE
EST. FINISH DATE	END DATE
WORK WINDOW	WORK WINDOW {NEW}
CONSULT AGENCIES/ SPECIES	
COMMENTS	
PROJECT MANAGER/CONTACT NAME {NEW}	CONTACT
CONTACT INFO (phone/email) {NEW}	CONTACT INFO (phone/email)
TYPE (Gravel/Sand/Mud) {NEW}	TYPE (Gravel/Sand/Mud) {NEW}

What Can we Do NOW to Incentivise Beneficial Reuse?

- Built or purchase new offloader
- Collaborate with restoration projects on tipping fees
- Create mechanism for dredger contribution to site prep to count as mitigation credit
- Could develop water sediments screening guidelines for upland soils
- Influence/change regulatory guidelines