INTRODUCTION & CONTEXT

BASIN ASSETS

PROCESS

TECHNICAL STUDIES SUMMARY & STRATEGIES

USES, AMENITIES & PROGRAM
## STUDY SITES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>OWNER</th>
<th>ACRES</th>
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<tbody>
<tr>
<td>India Basin Open Space</td>
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<tr>
<td>The Bay</td>
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</tbody>
</table>

**TOTAL AREA: 63.96 acres**
BLUE GREENWAY

13 miles

1.5 mile continuous waterfront
64 acres

Waterfront Parks Vision Plan in the Blue Greenway
WATERFRONT STUDY GOALS

GOAL 1 – **Prioritize environmental cleanup** to promote public health, safety, and welfare

GOAL 2 – Develop a **common set of data, facts, and analysis** from which to base design decisions

GOAL 3 – Provide a **unified design & programmatic blueprint** for the future development of a legacy waterfront park system that is accessible and available to all

GOAL 4 – Ensure a **diverse & balanced mix** of recreational, educational, and ecological services across all seven properties

GOAL 5 – Stimulate meaningful and inclusive local, citywide, & regional **community engagement and participation**

GOAL 6 – **Coordinate** the future design of a “shared design palette” for all seven sites to ensure that signage/wayfinding, furnishings, lighting, and pathway design are coordinated for a seamless user experience

GOAL 7 – Design a landscape that is **adaptive and resilient** in the face of anticipated sea level rise

GOAL 8 – **Expand public access** to the Bay and accelerate the development of the Blue Greenway

GOAL 9 – Identify and implement **“early win” activation** and design projects
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WHAT MAKES INDIA BASIN UNIQUE?
Photo credit: Anne Hamersky, Now Hunters Point
WHAT ASSETS MAKE INDIA BASIN UNIQUE?

Existing Assets & Potential Opportunities

- Living shorelines
- Naturally forming habitat
- Waterfront gateway
- Cultural center
- High point views
- Industrial heritage
- Iconic
- Resiliency
- Biodiversity
- Destination
WATERFRONT GATEWAY

HISTORIC
NEIGHBORHOOD PARK

REGIONAL PARK
CONTINUITY & ACCESS

HORIZONTAL

VERTICAL

> 1.5 MILE CONTINUOUS SHORELINE
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# Existing & Underway Program

- **Existing** / - **Underway**

## Categories

### Circulation
- Bay Trail / Blue Greenway
- Class I Commuter Bike & Ped Path
- Waterfront Access
- Car & Bike Share Facilities
- Vehicular Parking
- Wayfinding

### Active
- Playground
- Athletic Field / Large Lawn
- Recreation Center
- Basketball Courts
- Tennis Courts
- Fitness
- Dog Areas with Water Access
- Off-Leash Dog Area

### Passive
- Picnic Area
- BBQ
- Restrooms
- Performance
- Plaza / Promenade
- Art / Sculpture
- Bird Watching

### Water
- Beach
- Fishing
- Boating / Kayaking / Boat Building
- Sail Boating

### Habitat
- Wetlands
- Native Plantings
- Orchards / Nursery
- Living Shoreline Pilot Project

### Business / Cultural / Amenity
- Café / Restaurant
- Job Center
- Historic / Cultural Activity
### PREVIOUSLY PROPOSED PROGRAM

#### CATEGORIES

- **CIRCULATION**
  - Bay Trail / Blue Greenway
  - Class I Commuter Bike & Ped Path
  - Waterfront Access
  - Car & Bike Share Facilities
  - Vehicular Parking
  - Wayfinding

- **ACTIVE**
  - Playground
  - Athletico Field / Large Lawn
  - Recreation Center
  - Basketball Courts
  - Tennis Courts
  - Fitness
  - Dog Areas with Water Access
  - Off Leash Dog Area

- **PASSIVE**
  - Picnic Area
  - BBQ
  - Restrooms
  - Performance
  - Plaza / Promenade
  - Art / Sculpture
  - Bird Watching

- **WATER**
  - Beach
  - Fishing
  - Boating / Kayaking / Boat Building
  - Sail Boating

- **HABITAT**
  - Wetlands
  - Native Plantings
  - Orchards / Nursery
  - Living Shoreline Pilot Project

- **BUSINESS / CULTURAL / AMENITY**
  - Cafe / Restaurant
  - Job Center
  - Historic / Cultural Activity

#### PREVIOUSLY PROPOSED PROGRAM

<table>
<thead>
<tr>
<th>CIRCULATION</th>
<th>HERON’S HEAD PARK</th>
<th>HUNTERS POINT SHORELINE</th>
<th>INDIA BASIN SHORELINE PARK</th>
<th>900 INNES</th>
<th>INDIA BASIN OPEN SPACE</th>
<th>BIG GREEN</th>
<th>NORTHSIDE PARK</th>
<th>THE BAY</th>
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<tr>
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<td>Plaza / Promenade</td>
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<td>Sail Boating</td>
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<tr>
<td>Orchards / Nursery</td>
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</table>
SUNDAY STREETS
India Basin Waterfront Parks & Trails

...what’s your Vision?
BLACK LOVE FESTIVAL

India Basin Waterfront Parks & Trails...what's your Vision?

It would be great if...
Access by Public Transit
Sports fields
Picnic/BBQ spots
Play structures for families

people + places + experiences

India Basin Waterfront Parks & Trails...what's your Vision?

It would be great if...
African-American freedom trail
Signs + connections
tours & education

people + places + experiences
TASK FORCE MEETING #1

QUESTIONS/COMMENTS
- Water Taxi/SERVICE?
  - By Dry Docks / Parcel "C"
  - No Operator Yet - 10 yrs
- India Basin is Very Shallow
  - Need more data on Depths
  - Pending Bathymetry
- Consider Bay Trail Connections

SEDIMENT TESTING? Not sampled yet
- P6+P area sediments not bad
- Relatively clean fill

Not much new net Sediment Deposit

100yr Sea Level Rise Estimate
  See Hatch on Plan

Don't forget the people here now, not only future res + visitors

Hunter's Point Project Area Plan
  Community-wide vision

HAVE WE MISSED ANY STUDIES?
- INDIA BASIN SUB-AREA PLAN
  - Open Space
  - Community CTR
  - Maintainable Uses
  - Stairs / Access to Hillside Areas
- IGNIA COMMUNITY VISION
  - Blue Greenway
  - Dogs, Cultural CTR
  - Signature Park
  - Children's Services
  - Blue Greenway
  - H.O FRONT OpenSpace
  - Signage / Wayfinding
  - Standards / Design

- 18TCAP
  - Bus / Bikes / Dogs / Ped / Trucks / Cars
  - How to accommodate?
  - Vision for Public Realm

- Project Specific Plans
  - Lennar DDA + Transportation
  - Connect + Coordinate

- Bicycle Strategic Vision
  - "Vision Zero"
  - Dept of Public Health
  - Safe, Coord. Streets/Circulation

- Community Health Assessment
  - "Community Commons" MRP Overlays
  - Health / Social

- Public Space / Public Life Survey (Gehl Studio) Online Tracking for Whole Corridor

Next Time...
- Preserve Natural Identity Habitat
- Resiliency ... Adaptation
- Public-Private Partnerships
- Demographics, Socio-economic Issues? SNA
- SFUSD - Important to Attend
TASK FORCE MEETING #1

**PLAYGROUND**
- Athletic Field/Lawn
- Rec. Center
- Basketball Court
- Tennis Court
- Fitness
- Dog Areas w/ Water Access
- Picnic Areas
- BBQ
- Restrooms
- Performance Space
- Plaza / Promenade
- Art/Sculpture
- Bird Watching
- Fishing
- Boating / Kayaking

**WETLANDS**
- Climate Adaptation, Mitigation
- Fish, Education
- Easy Access
- Creativity

**COMMUTER + REC BIKE ROUTES**
- Alt. to Public Transit
- Safe, Low Cost
- Speed/Efficiency
- Coord. Improvements
- Future! P fred mode

**BEACH**
- Natural, Family-Friendly
- Long & Short-Term Planning
- where? opp. of constraints

**BOATING / KAYAKING**
- Existing
- Comm. Fitness/Health
- Non-Profit Water Access
- Aquatics Program
- Ideal for Beginners
- Protected
- Calm
- Other Launch Points
- Off Piers (Beach Launch Embar)

**COMMUNITY CENTER (LOCAL)**
- Bring Community to the waterfront
- Multiple Locations

**WARMING HUT**
- Interpretive
- Navigating
- Bon Fire
- Restorative / Mindful

**FARMERS Mkt**
- Bike Share / Parking
- School
- Flexible Meeting Space
- Animals / Equestrian

**CULTURE / HISTORY**
- Preserve/Maintain Past / History
- Regional Attraction
- Highline Style "Glimpses" into the Past (grane cone)
- Shipwrights Cottage
- Bird Watching
- "Life-Changing!"
- Birds of Heron's Head Book
- "Easy Win" Destination

**CAFE / WARMING HUT**
- Food + Multiple Offerings
- Historic Concession style Rotation
- Near Transit Hub
CONCERNS WE HEARD:

• Impacts on wetlands and habitat: dogs, kayaking/boating, trails (consider potential seasonal closures)

• Range of contamination throughout the basin

• Loss of wetlands & habitats with sea level rise

• What else?
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TECHNICAL STUDIES SUMMARY & STRATEGIES

USES, AMENITIES & PROGRAM
TECHNICAL STUDIES CONDUCTED

BASIN WIDE STUDIES
• Bathymetry & Topographic Surveys
• Coastal Processes Study
• Sea Level Rise – Opportunities & Constraints
• India Basin Transportation Action Plan

FOCUS AREA
• Biological Resources Assessment
• Wetlands Delineation
• Delineation of Jurisdictional Waters
• Preliminary Geotechnical Report
• Sediment Analysis
• Historic Report
Es·tu·ar·y
	noun
	a semi-enclosed coastal body of water, which has a free connection with the open sea, and within sea water is measurably diluted with freshwater derived from land drainage.
Biological Resource Assessment conducted by WRA found the following species in the India Basin:

- Snowy Egret
- Grey Egret
- Great Blue Heron
- Western Kingbird
- Violet
- American Avocet
- Black-necked Stilt
- Brown Pelican
- Canada Goose
- American Coot
- Yellow-crowned Night Heron
- American Wigeon
- Bufflehead
- Redhead
- Western Gull
- Anna's Hummingbird
- Northern Mockingbird
- House Finch
- Rock Pipit
- Eurasian Cobweb Spider
- Brewer's Blackbird
- American Crow
- Common Pheasant
- European Starling
- California Robin
- White-crested Sparrow
- Bell's P painting Grouse
- Rock Pigeon
- Western Tiger Salamander
- Purple Onion Crab
- Silver Wallet
- Conomor Venus
- California Buckeye
- Annual Agave
- Cattail Egrett
- Siskiyou Cattail
- Wildfire
- Coyote Brush
- Chilean Bromeliad
- Ragged Bittern
- Salt Marsh
- Barn Swallow
- European Swallow
- Warbler Sparrow
- Sea Fig
- Euphorbit
- Red Maple
- Ponderosa Pine

- Salicaceae
- Longleaf Pines
- Redwood
- Blue Gnat
- Red Fir
- Firs
- Woodland Strawberries
- Allium Mazum
- Purple foxglove
- Woodland Smoke
- Woodland Geranium
- Gentian
- Oregon Goldenrod
- Brandy De Tongue
- Yarrow
- Telegaph Vine
- Mediterranean Bailey
- Foliage
- Douglas Iris
- Marsh Marigold
- Rush
- Lily (Not Ricin)
- Sedge
- Varied Milkweed
- Baja-Post Tassel
- Silver Burs Lupine
- Vetch Bush Lupine
- Creosotebush Mallow
- Erz Wulf
- Sitka Willow
- Giant Sanger
- Rambutan Spider
- Tropical Pseudowood
- Guadalup Plantain
- English Plantain
- Swamp Cottonwood
- Klamath Fireweed
- Craft Love
- Wild Radish
- Himalayan Blackberry
- Cattail
- Pickleweed
- Armor Silvery
- Rubyfaced Derris
- Ponderosa Douglas Yell
STRATEGY 1

- Identify opportunities to enhance or create wetlands and a range of habitats

- Respect existing habitats and species in the design and construction process
BAY PROCESSES & CHARACTERISTICS
areas impacted by wave energy

Source: Coastal Processes Report, Moffat & Nichol, India Basin Waterfront Study
STRATEGY 2

Use living shoreline projects to test strategies for:

- erosion control
- wave attenuation
- habitat improvement / creation

TYPES OF LIVING SHORELINES:
- Tidal Marsh & Brackish Marsh
- Floating Wetlands
- Eel Grass Beds
- Oyster Reefs
- Engineered Dune
- Artificial Reef & Tide pools
**BATHYMETRY**

**DEFINITION**

**BATHYMETRY:**
(n) underwater topography depths

---

HIGHEST TIDE +9.42'
LOWEST TIDE -2.80'

---

Source: Coastal Processes Report, Moffat & Nichol, India Basin Waterfront Study; Sea Level Rise Opportunities & Constraints, WRA
STRATEGY 3

DEFINITION

BATHYMETRY:
(n) underwater topography depths

Potential Human-powered Boat Launch

HIGHEST TIDE +9.42'
LOWEST TIDE -2.80'

Locate multiple **human-powered boat launches** throughout the basin where the **lowest tide line is closest to the shoreline**

Source: Coastal Processes Report, Moffat & Nichol, India Basin Waterfront Study; Sea Level Rise Opportunities & Constraints, WRA
SHOALING:
(n) sandbank or sand bar in a shallow water body
(v) to become shallow as a result of wave energy

DEFINITIONS

Source: Coastal Processes Report, Moffat & Nichol, India Basin Waterfront Study; Sea Level Rise Opportunities & Constraints, WRA
NATURALLY FORMING SAND DUNES & BEACH

STRATEGY 4

- Design to accommodate natural sedimentation processes of the basin

- Consider opportunity to create beach and/or enhance sand dunes on Northeast shoreline of India Basin Open Space
CLIMATE CHANGE & SEA LEVEL RISE
SEA LEVEL RISE
(Most Likely Scenario)

Legend

- 2100 +46”
- 2100 +26”
- Existing Sea Level

Predicted “MOST LIKELY SCENARIO” Sea Level Rise*
2100 = 26” to 46” above existing mean sea level


“BCDC: Sea Level Rise Policies Fact Sheet

Source: Coastal Processes Report, Moffat & Nichol, India Basin Waterfront Study; Sea Level Rise Opportunities & Constraints, WRA
STRATEGY 5

Create **continuous band of habitat** along the waterfront as a buffer from sea level rise.

Create **continuous access** and **signage/wayfinding** along the waterfront.

Anticipate that short-term investments located near the shoreline may **need to be relocated upland in the future given long-term sea level rise**.
PREDICTED FLOODING DURING STORMS

Legend

- 2100: 18.5’
- Today: 13’

Flood Prediction for 100-yr storm (worst case scenario) per FEMA prediction

Source: Coastal Processes Report, Moffat & Nichol, India Basin Waterfront Study
FEMA: Federal Emergency Management Agency
STRATEGY 6

Locate all major capital improvements **AT or ABOVE** elevation +20’

**INCLUDES:**
- Utilities
- Roads
- Restrooms
- Permanent Structures & Facilities
- Infrastructure
- Bridges
STRATEGY SUMMARY

1. Identify opportunities to **enhance or create wetlands** and a **range of habitats**. Respect existing habitats and species in the design and construction process.

2. Use **living shoreline projects** to test strategies for **erosion control**, **wave attenuation**, and **habitat improvement / creation**.

3. Locate **multiple human-powered boat launches** throughout the basin where the **lowest tide line is closest to the shoreline**.

4. Design to accommodate sedimentation processes of the basin. Consider opportunity to **create beach** and/or **enhance sand dunes** on Northeast shoreline of India Basin Open Space.

5. Create **continuous band of habitat** along the waterfront as a buffer from sea level rise. Create **continuous access and signage/wayfinding** along the waterfront. Anticipate that short-term investments located near the shoreline may **need to be relocated upland in the future given long-term sea level rise**.

6. Locate all major **capital improvements AT or ABOVE elevation 20’**.