

ATTACHMENT A

Inventory of Existing Resources and Available Information

The following identifies existing plans, studies, models, datasets, and other technical information anticipated to support preparation of the Southern Bayside Cities Shoreline Resilience Plan (5 Cities Plan). The inventory is intended to help proposers understand the existing information base, avoid unnecessary duplication of prior work, and appropriately calibrate their proposed approach and level of effort.

The inventory is not exhaustive. Proposers should assume that publicly available resources and materials identified below as available to the selected Consultant can be relied upon in developing their proposals. Source files and other non-public materials will be provided following Notice to Proceed; OneShoreline does not anticipate distributing these materials during the procurement process. Additional information may be identified or become available as the work proceeds.

The appendix concludes with a summary of related plans, projects, and programs that may affect or inform the 5 Cities Plan. This summary is provided to highlight ongoing work, cross-jurisdictional dependencies, and implementation context that the selected Consultant will need to coordinate with during development of the Plan.

Flooding, Drainage, and Hydrologic/Hydraulic Models

Existing calibrated hydrologic and hydraulic models are available for all five cities, covering the drainage, creek, and channel systems identified below. Model files and available supporting documentation, GIS inputs, boundary-condition assumptions, and calibration information will be provided to the selected Consultant. Models were developed for different purposes and at different times; the Consultant shall evaluate their suitability for the required analysis and identify any targeted updates or supplemental analysis needed.

- **Belmont Creek / Belmont Slough.** HEC-HMS and HEC-RAS models associated with the **2019 Belmont Creek Watershed Management Plan**, covering Belmont Creek and Belmont Slough east of Highway 101.
- **Belmont Storm Drain System.** Citywide storm-drain modeling associated with the **2009 Storm Drain Master Plan** and the **current draft Storm Drain Master Plan Update**. [Model platform/version to be confirmed.]
- **Twin Pines Park Stormwater Detention Basin.** H&H modeling supporting the detention basin and related Belmont Creek improvements. [Model platform/version to be confirmed.]
- **San Carlos Storm Drain System.** PCSWMM model associated with the 2017 Storm Drain Master Plan.
- **San Carlos Northeast Area.** Drainage/flood modeling and technical analysis associated with the **Northeast Area Specific Plan**. [Model platform/version to be confirmed.]
- **Pulgas Creek.** HEC-HMS and HEC-RAS models associated with the 2025 Pulgas Creek Study.
- **Redwood City / Redwood Creek.** InfoWorks ICM modeling covering Redwood Creek and associated drainage systems; additional study deliverables may become available during the project.
- **Redwood Shores Lagoon and Interior Drainage.** Existing hydraulic analyses, lagoon-management information, dredging data, and engineering records for the Redwood Shores lagoon and interior drainage system.
- **Menlo Park Storm Drain System.** Hydraulic model associated with the **2023 Stormwater Master Plan**. [Model platform/version to be confirmed.]
- **East Palo Alto Storm Drain System.** MIKE-URBAN / SWMM 5 modeling associated with the 2014 Storm Drain Master Plan (adopted 2015), with additional storm-drain modeling completed for the 2024 Ravenswood Business District / 4 Corners Specific Plan Update.
- **SAFER Bay.** Hydraulic modeling supporting shoreline flood protection and marsh-restoration planning in Menlo Park and East Palo Alto. [Model platform/version to be confirmed.]
- **Bayfront Canal / North Fair Oaks.** H&H analysis of the Bayfront Canal watershed, including the **2017 Bayfront Canal Hydrology and Hydraulic Evaluation**.

- **Bayfront Canal / Atherton Channel.** Available as-built drawings and related flood-management records for the constructed project will be provided.

Sea Level Rise, Coastal Flooding, and Prior Adaptation Studies

Existing regional and local sea level rise, coastal flood, and adaptation studies provide the baseline for updating the vulnerability assessment and developing adaptation strategies. Publicly available resources should be used together with project-specific files identified for transfer to the selected Consultant. The Consultant shall evaluate differences in scenarios, assumptions, vintages, minimum asset categories, and geographic coverage when applying prior work.

- **FEMA Coastal Flood Studies and Regulatory Mapping.** 2014 San Francisco Bay coastal flood studies for San Mateo County, together with current effective FIRM panels and Flood Insurance Study information.
- **CoSMoS / Our Coasts, Our Future – San Francisco Bay.** Regional sea level rise and coastal flooding exposure datasets for a range of scenarios.
- **San Mateo County Sea Level Rise Vulnerability Assessment.** 2018 countywide vulnerability assessment and technical appendices; supporting study files will be provided.
- **Redwood City Sea-Level Rise Vulnerability and Adaptation Planning Study.** 2024 vulnerability and adaptation study; supporting study files will be provided.
- **SAFER Bay.** Current shoreline flood-protection and marsh-restoration planning and design for Menlo Park and East Palo Alto; Final EIR certified 2026, design advancing from 60% milestone. Current project materials should be incorporated where relevant.
- **Silicon Valley Clean Water Shoreline, Levee, and Habitat Resources.** Current sea level rise, levee, shoreline, flood-protection, and habitat-restoration work associated with the wastewater treatment facility.
- **South Bay Salt Pond Restoration Project – Ravenswood / Phase 2.** 2016 Final EIS/EIR and subsequent implementation materials for major wetland-restoration and flood-resilience work in the Ravenswood area.
- **San Francisco Bay Shoreline Adaptation Atlas.** SFEI/SPUR regional framework for nature-based shoreline adaptation and Operational Landscape Units.
- **Baylands Habitat Map and Bay Shore Inventory.** Regional GIS describing baylands habitats, tidal connectivity, shoreline features, levees, berms, armoring, and related landscape conditions.
- **San Francisco Baylands Resilience Metrics Mapbook.** SFEI resource supporting evaluation of baylands resilience and ecological function.
- **San Francisco Estuary Partnership’s Estuary Blueprint.** Regional priorities and actions for estuary health and resilience.
- **San Francisco Bay Subtidal Habitat Goals Report.** Regional baseline and goals for subtidal habitat conservation and restoration.
- **Millbrae and Burlingame Shoreline Resilience Project.** Current OneShoreline analysis of shoreline evaluating nature-based and hybrid concepts specifically in the context of FAA wildlife-hazard considerations.
- **San Francisco Bay Area Precipitation in a Warmer World.** Regional state-of-the-science and future precipitation intensity-duration-frequency information developed by SFPUC, Lawrence Berkeley National Laboratory, and Pathways Climate Institute.
- **Climate Change Precipitation Adjustments for San Mateo County.** Forthcoming County-specific precipitation intensity-duration-frequency adjustments based on the regional warmer-world methodology.

Groundwater, Contamination, and Environmental Data

Regional shallow-groundwater mapping and state regulatory databases provide the primary baseline for screening groundwater rise and contamination. Local studies and site-specific records should be used where greater detail is needed. No consolidated contaminant-transport model or planning-area-wide contaminant-mobilization analysis has been identified.

- **Shallow Groundwater Response to Sea-Level Rise.** 2022 SFEI/Pathways regional study and GIS datasets mapping existing and projected shallow-groundwater conditions along the San Mateo County bayshore.
- **San Mateo County Sea Level Rise Vulnerability Assessment – Groundwater Resources Evaluation.** 2018 technical groundwater evaluation providing prior County-level context.
- **GeoTracker and EnviroStor.** Current state regulatory databases and downloadable records for cleanup sites, groundwater monitoring, wells, hazardous materials, and related environmental information.
- **Redwood City Groundwater Studies.** Existing local groundwater studies identified in the Redwood City project files; materials will be provided.
- **Site-Specific Environmental Records.** Additional cleanup, remediation, hazardous-material, geotechnical, and environmental records are available through regulatory databases and individual planning or development projects where relevant to adaptation areas.

GIS, Topography, Bathymetry, and Monitoring Data

Current regional GIS and elevation datasets provide a common baseline for planning-area mapping and analysis. Available jurisdictional and project-specific data will supplement these regional resources. The Consultant shall evaluate data resolution, currency, vertical datum, completeness, and suitability and identify targeted supplemental survey or monitoring where necessary.

- **2025 San Francisco Bay–Delta Estuary LiDAR and DEM.** High-resolution regional LiDAR, hydro-flattened DEM, breaklines, and associated elevation products.
- **San Mateo County LiDAR / DEM. 2017 Countywide LiDAR-derived DEM,** covering approximately 578 square miles and documented as Quality Level 2 with approximately four points per square meter.
- **South San Francisco Bay Bathymetric DEM.** 2021 regional 1-meter bathymetric DEM compiled from surveys collected between 2005 and 2020.
- **San Francisco Bay Tidal Datums and Extreme Tides.** 2016 regional tidal datum and extreme stillwater elevation information.
- **NOAA Redwood City Water-Level Station.** Active observed water-level, tidal-datum, extreme-water-level, sea-level-trend, and benchmark records for the South Bay.
- **San Francisco Bay Shore Inventory and Baylands Habitat Map.** Regional GIS describing shoreline configuration, levees and berms, armoring, tidal connectivity, wetlands, and baylands habitats.
- **Vertical Land Motion / Subsidence Data.** High-resolution regional uplift and subsidence data relevant to relative sea level rise.
- **Jurisdictional GIS.** Available storm-drain, sanitary-sewer, water, parcel, infrastructure, asset, and related GIS will be provided where identified. Coverage and attributes vary by jurisdiction and owner.
- **Project-Specific Survey, Bathymetry, Monitoring, and Engineering Data.** Available local surveys, creek and slough cross-sections, lagoon and bathymetric information, gauges, water-level records, geotechnical information, and project-specific engineering data will be provided where identified.

Regulatory and Regional Planning Documents

Current regional plans, standards, regulatory requirements, and planning datasets establish the framework within which the Plan must be prepared. The Consultant shall use the versions in effect during the project and incorporate updates where applicable.

- **BCDC Regional Shoreline Adaptation Plan and RSAP Atlas.** RSAP adopted 2024; includes applicable planning standards, hazard information, GIS resources, and regional adaptation requirements.
- **General Plans, Safety Elements, and Capital Improvement Programs.** Current adopted plans and programs for the five cities and applicable County areas.
- **San Mateo County Stormwater Resource Plan.** 2017.

- **San Mateo County Green Infrastructure Plan.** 2019.
- **San Mateo County Drainage Manual.** 2023.
- **Municipal Regional Stormwater Permit 3.0.** Effective 2022.
- **San Mateo County Multijurisdictional Local Hazard Mitigation Plan.** 2021 plan and jurisdictional annexes; update under review by CalOES/FEMA.

Related Plans, Projects, and Programs

The following summarizes major ongoing or recently completed plans, capital projects, regulatory programs, and infrastructure initiatives with potential relevance to the 5 Cities Plan. These efforts vary in maturity and geographic scope and may continue to evolve during the planning process. The selected Consultant shall coordinate with applicable lead agencies and incorporate current information where these efforts affect vulnerability, adaptation strategy development, sequencing, implementation, or inter-jurisdictional coordination.

The table is not intended to be an exhaustive catalog of all agency activities. Status information reflects the best available information at the time of RFP issuance and may change during the project.

Lead Jurisdiction	Plan/Project	Additional Jurisdictions Involved	Status
Caltrain	Redwood City Grade Separation Study (see above)	SMCTA, City of Redwood City	No standalone Caltrain-led plan; coordination point is the grade separation study
Caltrans	San Mateo 101 Express Lanes Project	SMCTA	Complete/operational. Opened in segments through late 2022; 22-mile express lane conversion, Santa Clara County line to I-380, through Menlo Park and Redwood City
Cargill	Solar Sea Salt System Maintenance & Operations Permit	—	Approved/active: issued June 2025; 10-year term
City of Belmont	Harbor Industrial Area (HIA) Specific Plan	San Mateo County	Planning in progress. NOP for Draft EIR filed 2024; Specific Plan and EIR anticipated by end of 2026
City of Belmont	Twin Pines Park Stormwater Detention Basin Project	San Carlos, San Mateo County, OneShoreline	100% design complete; construction unfunded; must commence by end of 2028 or grant funding may lapse
City of Belmont	1301 Shoreway ("Sem Lane") Life Sciences Development	—	Entitled: approved ~March 2026 with a 10-year development agreement; BCDC permit review ongoing
City of Redwood City	Redwood Shores Sea Level Rise Protection Project	Belmont, San Carlos, San Mateo County (San Carlos Airport), Silicon Valley Clean Water	Council approved "connect and raise 3.5 ft over 7 miles," February 2026; 60% design due July 2026; completion targeted 2034
City of Redwood City	Redwood Life Precise Plan	—	CEQA in progress. Adoption estimated late 2026
City of Redwood City	Greater Downtown Area Plan	—	In progress. Preferred framework targeted Fall 2026; adoption target 2027
City of Redwood City	Redwood City Grade Separation Study	SMCTA, Caltrain (Peninsula Corridor JPB)	Planning/funding study; estimated up to \$1B; compare Burlingame's parallel project, funded \$340M via Measure A in 2026
City of Redwood City	Price and Bradford Pump Stations	—	Under construction
City of San Carlos	Northeast Area Specific Plan	—	Adopted June 2026
City of San Carlos	East Side Innovation District Vision Plan	—	Adopted 2021

East Palo Alto	East Palo Alto Levee Project (SAFER Bay)	SFCJPA, Menlo Park, Redwood City, San Mateo County, USFWS	EIR certified May 28, 2026; South of Bay Road reach advancing toward permitting/construction
East Palo Alto	Ravenswood Business District / 4 Corners Specific Plan	—	Adopted December 17, 2024; encodes SAFER Bay flood elevations into zoning
East Palo Alto	Storm Drain Master Plan (2015)	—	Adopted 2015
Menlo Park	SAFER Bay Design — Bayfront Expressway, Tech Campus Reaches, Substation and Marsh Restoration	SFCJPA, East Palo Alto, Valley Water, USFWS	EIR certified May 28, 2026; project-level reach advancing to permitting; program-level reaches remain conceptual
PG&E	Not identified	—	No confirmed dedicated plan; Cooley Landing/Ravenswood substation appears as at-risk asset only
Port of Redwood City	Redwood City Ferry Terminal Project	—	Planned. Proposed southernmost hub of the SF Bay Ferry system; not yet under construction
Port of Redwood City	Living Shoreline Pilot Project	—	Under construction. Summer–fall 2026 (now?)
Port of Redwood City	Clean Port Plan	—	Multi-phase; two-year EPA grant launched 2026. Completion expected ~2028
SamTrans	Grand Boulevard Initiative (GBI)	19 cities along El Camino Real (San Mateo & Santa Clara Counties); Caltrans, C/CAG, SMCTA, Santa Clara VTA	Planning in progress. Action Plan adopted January 2026; advancing to Caltrans Project Initiation Document phase
SamTrans	Reimagine Dumbarton	East Palo Alto, Menlo Park, Redwood City	Planning. Community engagement through winter 2027; explores a bus/bike corridor through Belle Haven, replacing the earlier rail bridge concept
SFCJPA	SAFER Bay Environmental Impact Report	Menlo Park, East Palo Alto	Certified. May 28, 2026
Silicon Valley Clean Water	Levee Repair Project	—	EIR/NOD filed December 2025; relationship to Redwood Shores project above should be confirmed
West Bay Sanitary District	Flow Equalization and Resource Recovery Facility (FERRF) Levee Improvement Project	Menlo Park	Substantially complete. Construction began October 2023, targeted completion January 2025; \$15.1M; sheet-pile and nature-based ecotone levee protection