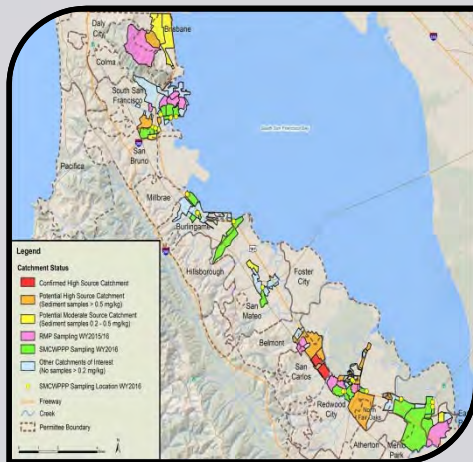


Identifying Management Areas and Controls for PCBs in San Mateo County Stormwater



Jon Konnan - EOA, Inc.
C/CAG Stormwater Committee

August 18, 2016

MRP PCBs Load Reduction Requirements

- San Mateo County reductions
 - 370 grams/year by the end of the permit term
 - 60 grams/year by June 30, 2018
 - 15 grams/year via green infrastructure by the end of the permit term



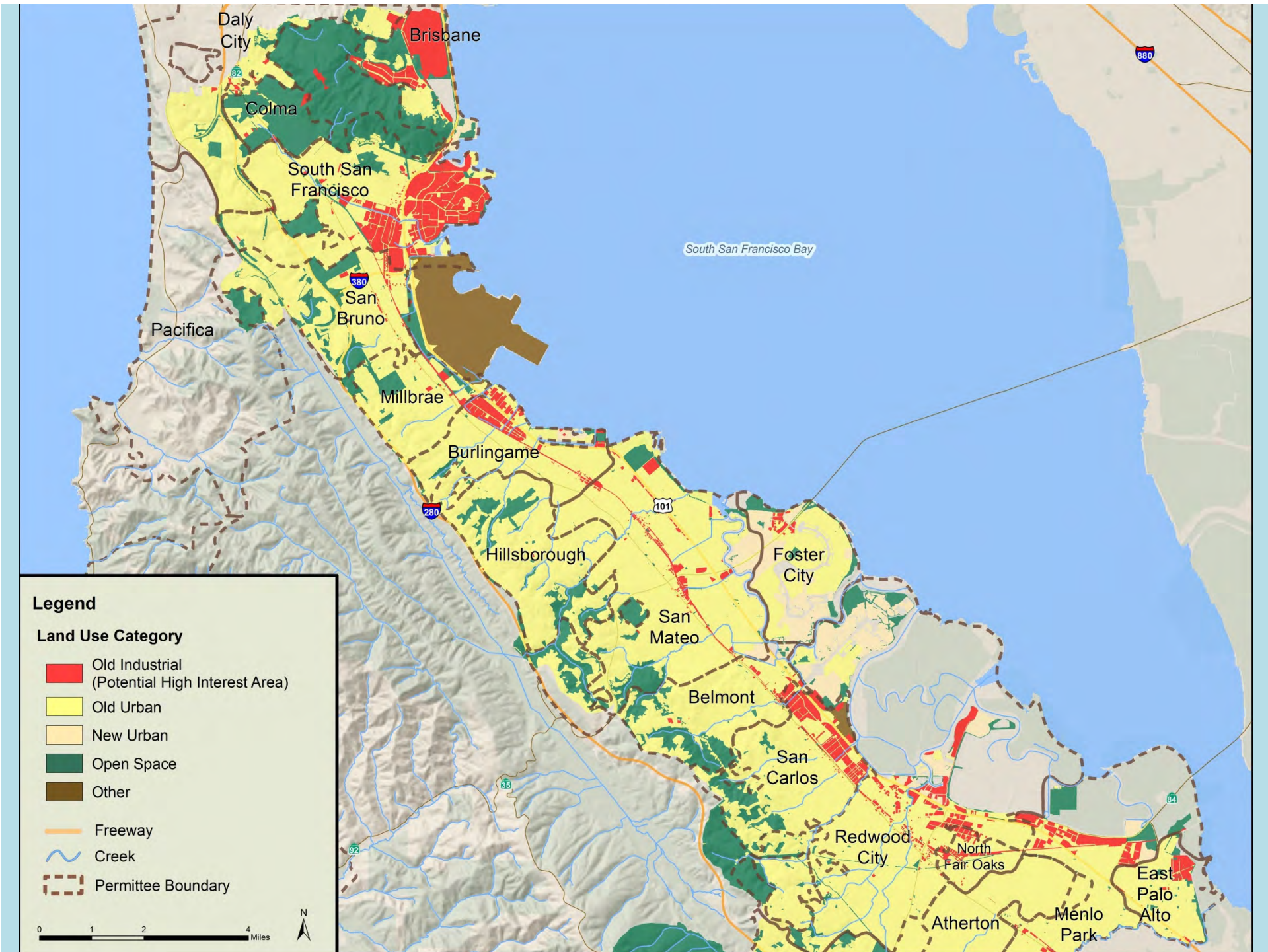
MRP PCBs Reporting Requirement

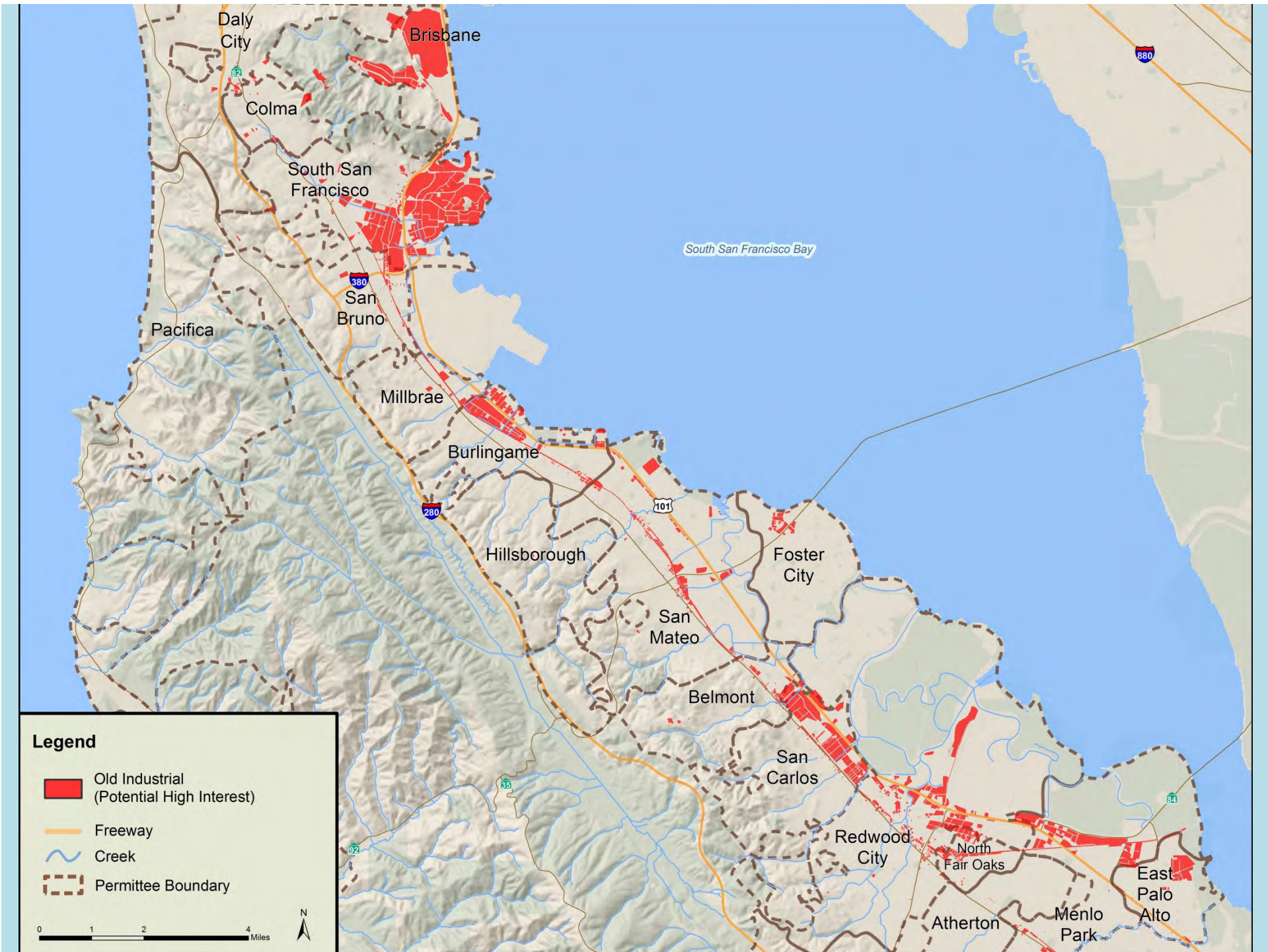
- PCBs report due September 30, 2016
 - Descriptions and locations of control measures including their Watershed Management Areas (WMAs)
 - For each control, schedule with milestones (e.g., construction milestones for structural controls)
 - Roles and responsibilities for implementation
 - Next year and annually thereafter - update above info and report load reductions

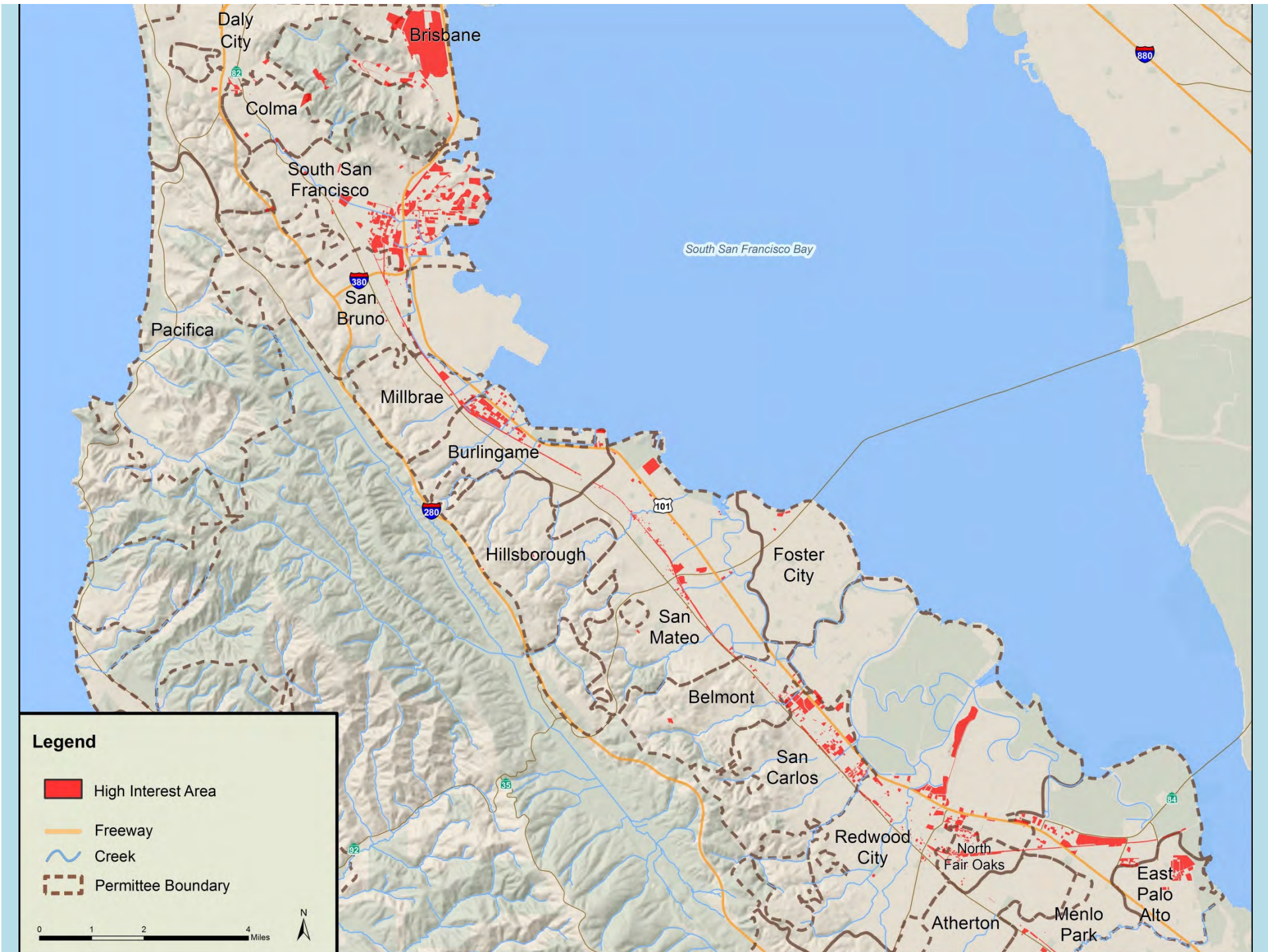
Major PCBs Controls this Permit Term

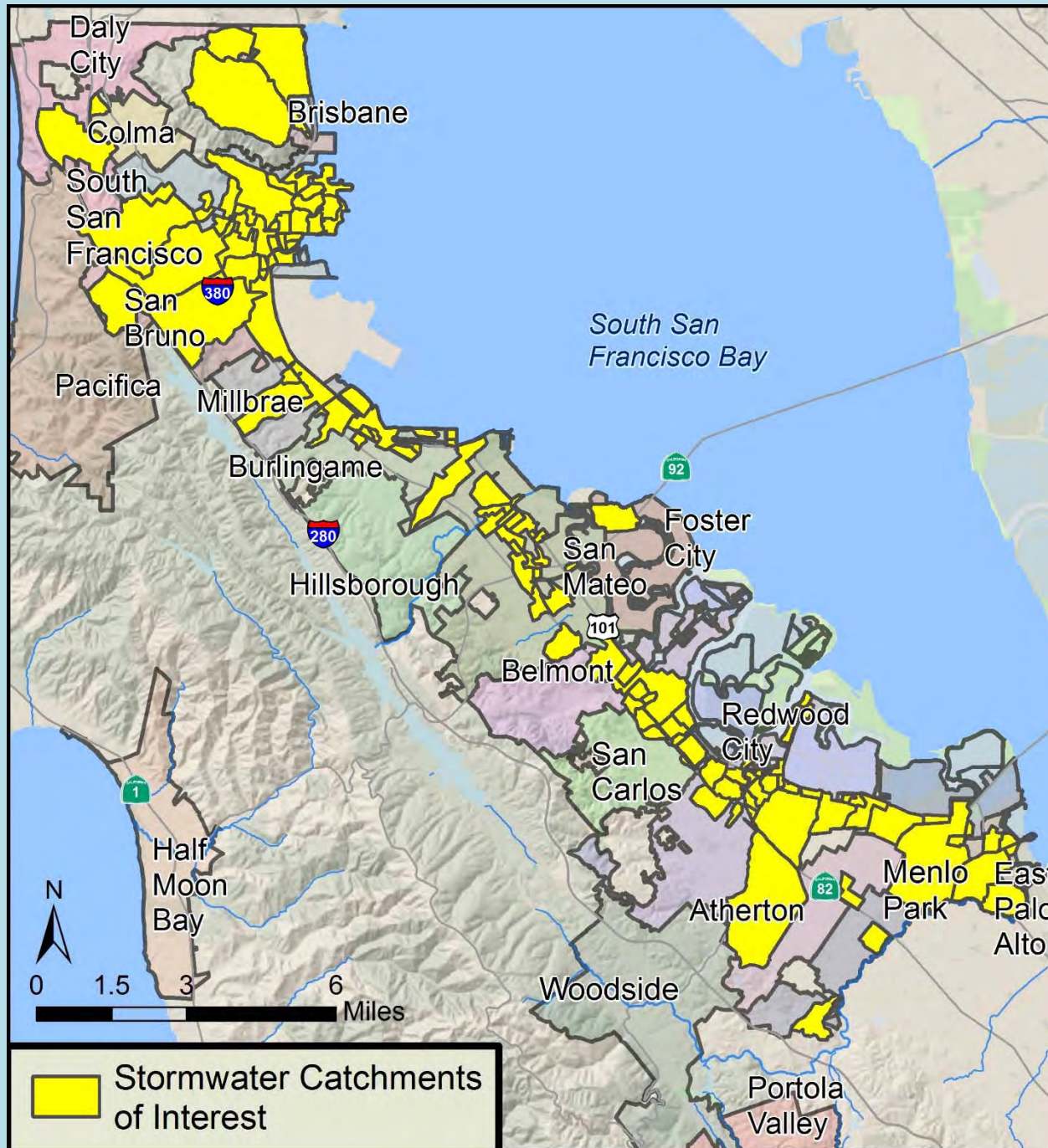
1. Source property referral or abatement
 - Referral - 50% credit at time of referral (O&M measures required in adjacent street or storm drain infrastructure unless not justifiable)
 - Abatement completed - 100% credit
2. Stormwater treatment at redevelopment sites (e.g., LID via C.3) & retrofit of public ROW (e.g., bioretention curb extensions)
3. Building demolition management

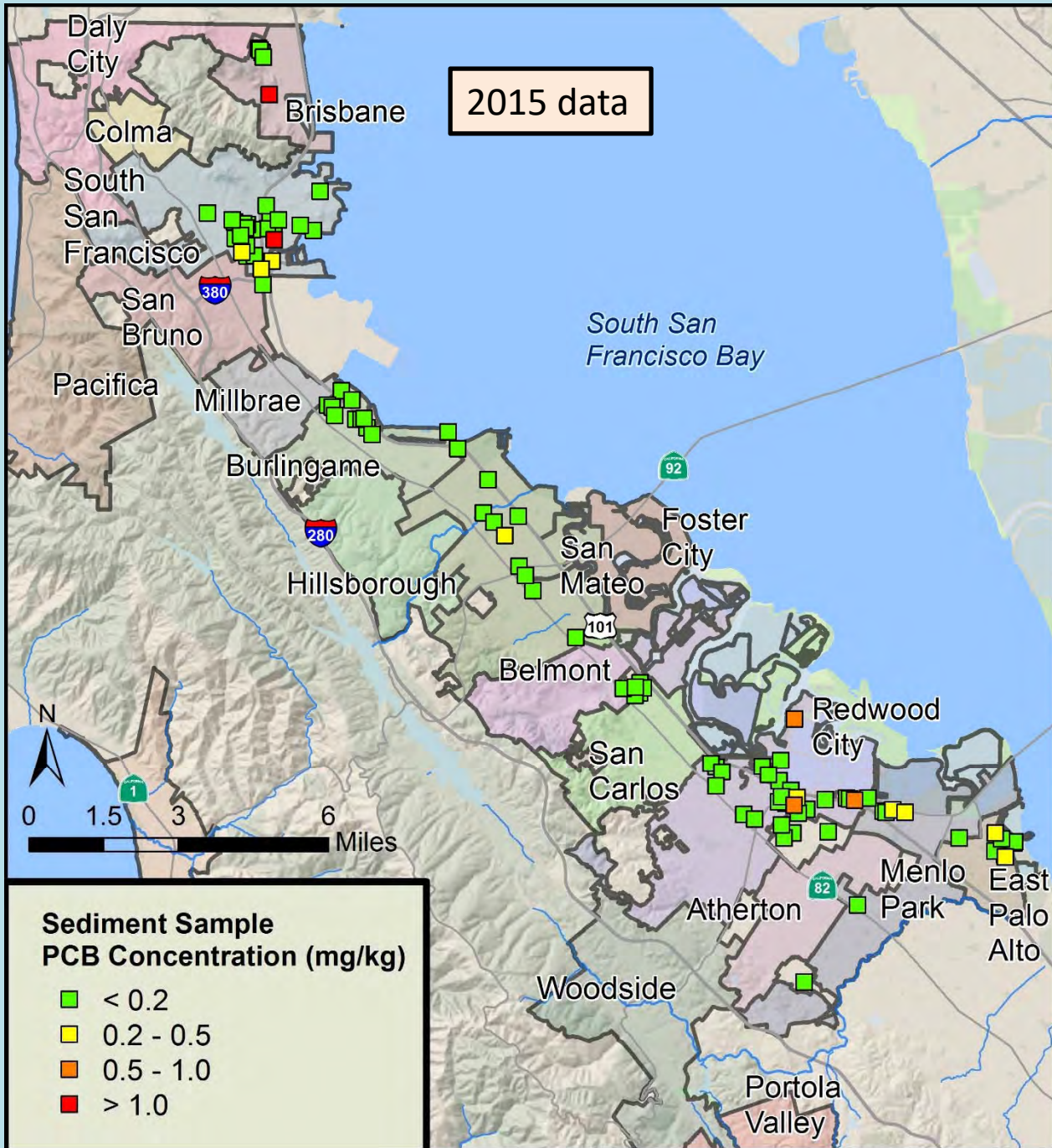


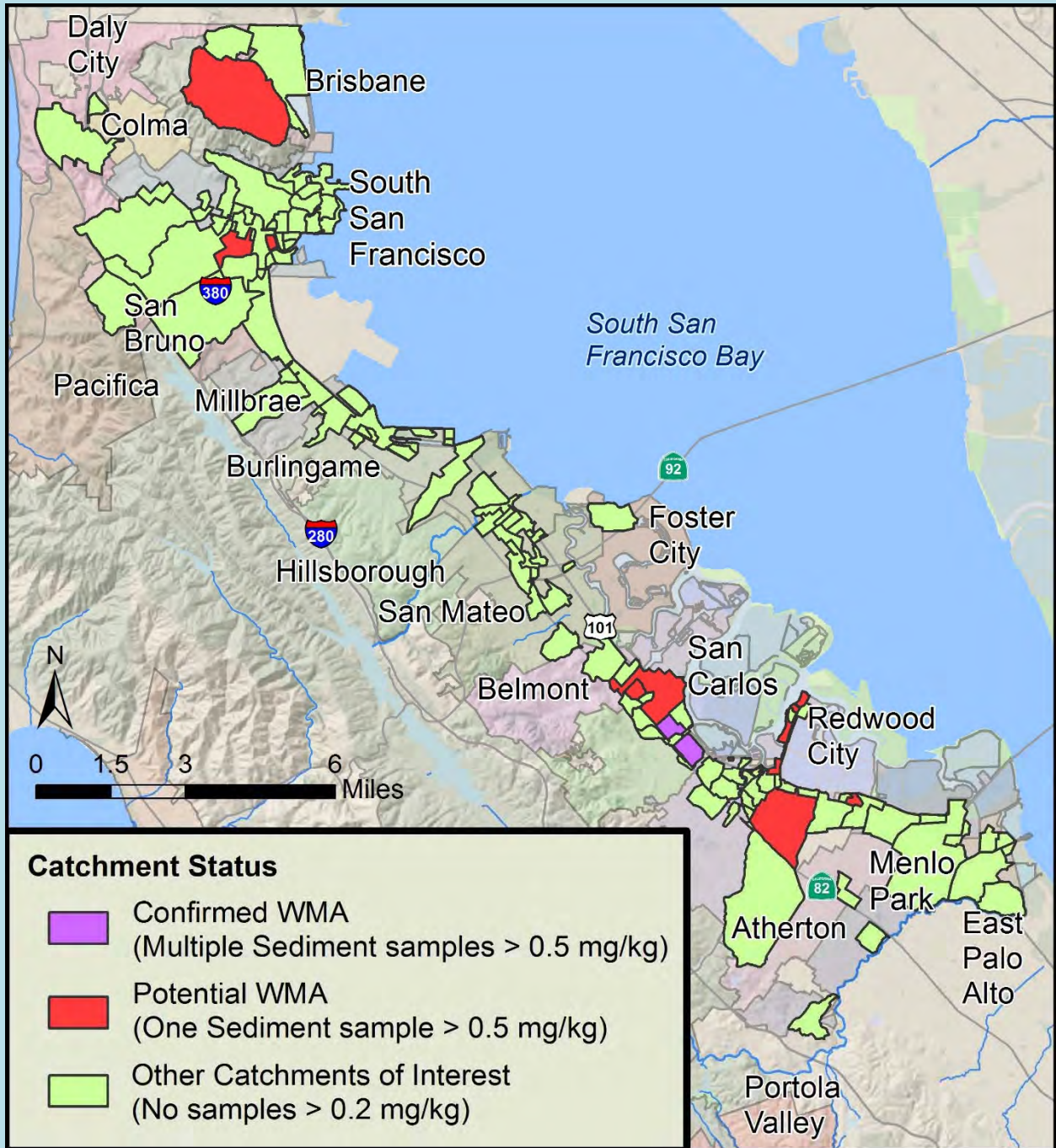












April 2016 Progress Report

- Based on sediment results to-date
 - Two confirmed WMAs
 - Eight potential WMAs
 - Remaining catchments with parcels of interest but no elevated sediment samples or no data.



Recent Stormwater Runoff Sampling

- Countywide Program, other Programs, RMP
- SM County last winter: bottom of catchments with high percentage of interest parcels with
 - Low bedded sediment concentrations
 - No sediment data, including catchments where unable to collect sediment
- Data still under QC and full report in March 2017, but preliminary results available
- Identify new WMAs or eliminate

PCBs Report

- Will add many new WMAs
 - Any catchment that contains GI/LID or referral site
 - Possibly some catchments identified via stormwater runoff water samples collected last winter
- Table for each agency
 - WMAs within its jurisdiction
 - Controls identified or planned to-date within each WMA

PCBs Report (cont.)

- Evaluation of existing actions - **no missed opportunities**
 - Mapping/tracking of existing GI/LID & redevelopment
 - Cleanups of sites where contaminants include PCBs
 - Channel desilting in areas that drain suspect land uses
 - Any maintenance or infrastructure work where testing for PCBs occurred (e.g., caulks tested during street/sidewalk, storm drain, swimming pool work)

PCBs Report (cont.)

- Will describe the following planned activities (Countywide Program will continue working with local agencies in SM County to implement)
 - ID of additional WMAs via monitoring
 - Additional source investigations to attempt to ID source properties within WMAs (e.g., Pulgas Creek pump station drainages)
 - Continue evaluating other possible controls (e.g., diversion, flood control basins)

PCBs Report (cont.)

- Will describe more details about planned activities
 - Green infrastructure plans due Sept 2019
 - CW4CB to make BMP effectiveness data available and provide guidance that will inform selection of future BMPs. Web page, draft report, and workshop this calendar year, final report by spring 2017
 - Using interim accounting system, begin to develop scenarios to meet required load reductions
 - Transition from interim accounting to Reasonable Assurance Analysis
 - Continue to evaluate funding options
 - SM County PCBs workgroup to meet periodically

Source Investigation Example

- Hot sediment samples at bottom of catchment
- Traced different branches - hot manhole sediment samples in one area
- Very hot sediment sample from inlet on private property connected to manhole via lateral
- No current indication of above-ground sources
- Subsurface contamination getting into compromised storm drain?

Source Investigation Example (cont.)

- Historic records
 - Haz waste inspection identified drum of PCBs oil on the property and noted extensive evidence of soil contamination
 - Leaking hazardous waste drums on site
 - Aboveground tank had oil which circulated in coils around the tank.
 - Soil sample collected beneath tank had relatively high PCBs.
 - Site was cleaned up to some level.
- Other similar sites?

Redwood Shores Ecological Preserve



Near-term Reporting Schedule

- September 2 - Draft Countywide Program Annual Report to Permittees (two week review period)
- September 9 - Draft PCBs report to Permittees (two week review period)
- Both reports are due to Regional Water Board by September 30
- BASMAA to submit interim accounting system on September 30 for approval by EO