



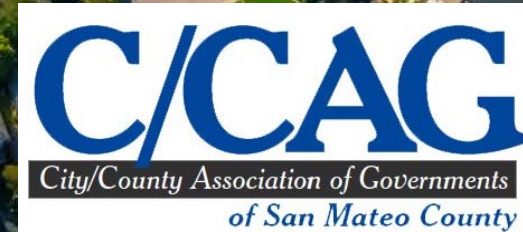
Stormwater Committee Presentations

C/CAG Stormwater Committee Meeting, August 20, 2026

Staff:

Reid Bogert, Stormwater Program Director, rbogert@smcgov.org

Dan Sternkopf, Senior Stormwater Program Specialist, dsternkopf@smcgov.org





Item 1 – Call to Order/Roll Call.



Item 2 – Public Comment
(items not on the
agenda).



Item 3 (Action) – Review and approve the April 16, 2026 Storm water Committee meeting minutes.



Item 4 (ACTION) –
Review and approve a
recommendation to
approve the BAMSC
Regional Climate Change
Adaptation
Report at the August 27
BAMSC Steering
Committee.



BAMSC Regional Climate Change Adaptation Report

- MRP Provision C.21.b.v requires Permittees to complete a Climate Change Adaptation Report (CCAR) to identify potential climate change-related threats to stormwater quality assets and appropriate adaptation strategies to climate threats over the next 50 years.
- The countywide programs through the Bay Area Municipal Stormwater Collaborative opted to develop the CCAR at the regional scale (FY25-26 and FY26-27 project of regional benefit).
- Due to the Regional Water Board with the FY25-26 Annual Reports.



BAMSC Regional Climate Change Adaptation Report

- The CCAR linkage to C.21 Asset Management Plans
 - Consider adaptation for assets in Asset Management Plans:
 - GSI
 - Non-LID
 - Trash controls
- Climate data/planning info from relevant local, regional and state sources
 - San Francisco Bay Conservation and Development Commission
 - California's 4th Climate Change Assessment
 - GI Leadership Exchange Climate Resilience Resources Guide
 - OneShoreline Resilient Infrastructure Planning Guidance
 - Local Climate Action/Adaptation plans
- Recommends potential adaptation strategies by general categories (focus on siting/design/construction/maintenance)



BAMSC Regional Climate Change Adaptation Report

Table 6-1. Summary of CCAR Potential Asset Adaptation Strategies and Implementation Levels

Category	Potential CCAR Adaptation Strategies	Implementation Level*		
		P	C	R
1. GSI-related Planning	• Coordinate GSI planning with other municipal plans including climate adaptation, action and resilience plans; general plan updates; urban forestry; and other plans related to sustainability, transportation, public works, and community outreach. • Consider watershed and “One Water” approaches, where appropriate, to coordinate implementation of projects that improve the resilience, maintenance, or long-term performance of stormwater quality-related assets • Participate in and utilize countywide, regional, and state-wide planning efforts, as appropriate, to increase effectiveness.	● ● ●	 ● ●	 ● ●
2. GSI-related Policies	• Integrate GSI into other appropriate and related policies. • Consider GSI siting priorities related to addressing equity and climate impacts on historically disadvantaged and/or affected neighborhoods as appropriate. • Work together with CBOs and other organizations to get buy-in from residents and businesses on GSI approaches and projects.	● ● ●	 ●	
3. Asset Vulnerability and Siting (all asset types)	• Review asset locations in comparison to regional maps that show where sea level rise and other climate-related hazards are projected to impact existing and future assets. • Consider design, maintenance, and/or relocation strategies to address impacts.	● ●	 	
4. Sizing Guidance (all asset types)	• Update rainfall records to include the most current data and incorporate the data into revised tools and guidance for stormwater quality asset sizing criteria as appropriate.	 	●	●



BAMSC Regional Climate Change Adaptation Report

Category	Potential CCAR Adaptation Strategies	Implementation Level*		
		P	C	R
5. GSI Design and Construction	- Review guidance documents, standard/typical stormwater control measure/GSI details and specifications for updates to improve resilience and prepare for climate impacts. - Collaborate regionally on revisions to the BSM specification. - Consider changes to plant palettes, irrigation systems, mulch details, infiltration designs, inlet/outlet structures, underdrains, tree-based GSI, rainwater harvesting systems, pervious pavement reflectivity, urban soils, etc., to address potential climate impacts. - Integrate feedback from maintenance practices and experience into designs and construction.	●	●	●
6. GSI Operation and Maintenance	- Consider options for hard stormwater asset and vegetation maintenance practices that provide cost-effective adaptation strategies - Create conditions for more resilient landscapes (e.g., healthy plants and diverse habitats with native plants, animals and pollinators) - Train professionals and create green jobs with GSI maintenance education to improve the performance of GSI systems.	●	●	●

* Codes for implementation levels: P = Permittee, C = Countywide Program, R = Regional



BAMSC Regional Climate Change Adaptation Report

- CCAR approval and submittal process
 - Draft distributed to permittees on May 19/comments June 10
 - Revised Draft distributed to permittees on July 2/comments July 15
 - Final Draft distributed on August 7
 - Approval by Stormwater Committee August 20
 - Approval by BAMSC Steering Committee August 27
 - Incorporate as appendix to SMCWPPP FY25-26 Annual Report



Item 5 (Action) – Review and approve a recommendation to approve the BAMSC Regional Effectiveness Evaluation of the PCBs/Demolition Program Report at the August 27 BAMSC Steering Committee.



BAMSC Regional PCBs/Demolition Program Effectiveness Evaluation Report

- MRP Provision C.12.g requires ongoing implementation of the programs to address PCBs during demolition and to complete an evaluation of the effectiveness of the PCBs Demolition Programs. Evaluation report assesses data to-date and makes recommendations for MRP 4 improvements.
- Due to the Regional Water Board with the FY25-26 Annual Reports.
- BAMSC developed the PCBs Demolition Program Effectiveness Evaluation Report as a project of regional benefit in FY25-26 and FY26-27.



BAMSC Regional PCBs/Demolition Program Effectiveness Evaluation Report

- Report concludes that the PCBs Demolition Programs are effectively identifying and removing PCBs from the prioritized building materials in applicable structures.
- Fewer buildings “screened in” than expected (average 11/yr Bay Area wide compared to 50/yr which was the MRP 2 assumption) – some buildings bypassing the program due to “asbestos exemption”.
- Est. cumulative reduction from 2019 to 2025 is 2.3kg total (MRP credit is 2kg/yr); PCBs mass removal per building approximately 5kg/building.
- Control effectiveness enhancement may improve load reduction calculations.
- Recommend program streamlining and process improvements.



BAMSC Regional PCBs/Demolition Program Effectiveness Evaluation Report

- PCBs Demolition Program Effectiveness Report approval and submittal process
- Draft report distributed to permittees on July 16/comments July 28
- Revised/Final report distributed to permittees on August 5 (minor edits since then proposing exemption for permittees without applicable structures to-date)
- Approval by Stormwater Committee August 20
- Approval by BAMSC Steering Committee August 27
- Incorporate as appendix to SMCWPPP FY25-26 Annual Report



Item 6 (INFORMATION) –
Review and approve a
recommendation to
approve the BAMSC
Regional SCLRA for
Reasonable Assurance
Analysis 2026 Update at
the August 27 BAMSC
Steering Committee.



BAMSC Regional SCLRA for Reasonable Assurance Analysis 2026 Update

- During MRP 2.0 BASMAA developed the Source Control Load Reduction Accounting Methodology (SCLRA) for Reasonable Assurance Analysis as an update to the methods for PCBs and mercury load reduction accounting in MRP 3 (approved by Regional Board 2022).
- SCLRA used to update the SMCWPPP PCBs/mercury Control Measure Plan and Reasonable Assurance Analysis submitted Mar 2026.
- MRP 3 requires Permittees to update the SCLRA again for PCBs/mercury load reduction accounting during MRP 4.
- BAMSC developed the Regional SCLRA for RAA 2026 Update as a project of regional benefit in FY25-26 and FY26-27.



BAMSC Regional SCLRA for Reasonable Assurance Analysis 2026 Update

- Primary updates:
 - Updated PCBs and added Hg source-property yields.
 - Added Old Industrial Area accounting (moderate property controls).
 - New “Stormwater Retrofit Projects” category (including traditional retrofits/non-GSI/large trash capture/POTW diversion).
 - Simplified O&M accounting (removed “enhanced” O&M; crediting based on documented pollutant mass removed at a recurring frequency).
 - PG&E accounting – PCBs removal by 2040, apportioned by population).
 - Updated urban sediment concentration data based on latest information.



BAMSC Regional SCLRA for Reasonable Assurance Analysis 2026 Update

- SCLRA for RAA 2026 Update approval and submittal process
 - Draft report distributed to permittees on June 11/comments June 24
 - Revised/Final report distributed to permittees on August 5
 - Approval by Stormwater Committee August 20
 - Approval by BAMSC Steering Committee August 27
 - Incorporate as appendix to SMCWPPP FY25-26 Annual Report



Item 7 (Action) – Review and approve a recommendation to approve the BAMSC Regional Supplement for New and Redevelopment at the August 27 BAMSC Steering Committee.



BAMSC Regional Supplement for New and Redevelopment

- Provision C.3.j.iv of the MRP requires Permittees to document and report on activities related to “participating in processes to promote green infrastructure.”
- BAMSC developed the Regional Supplement for New and Redevelopment, which documents activities supporting green stormwater infrastructure throughout the Bay Area, including activities implemented by SMCWPPP staff.
- Final Draft circulated to Permittees on August 7 for consideration by management committees. Approval will occur at the August 20 BAMSC Steering Committee and will be included as an appendix the SMCWPPP FY25-26 Annual Report.



Item 8 (Information) –
Receive information and
guidance on the
Municipal Regional
Stormwater Permit
Provision C.21 Asset
Management
requirements regarding
asset condition
assessment.

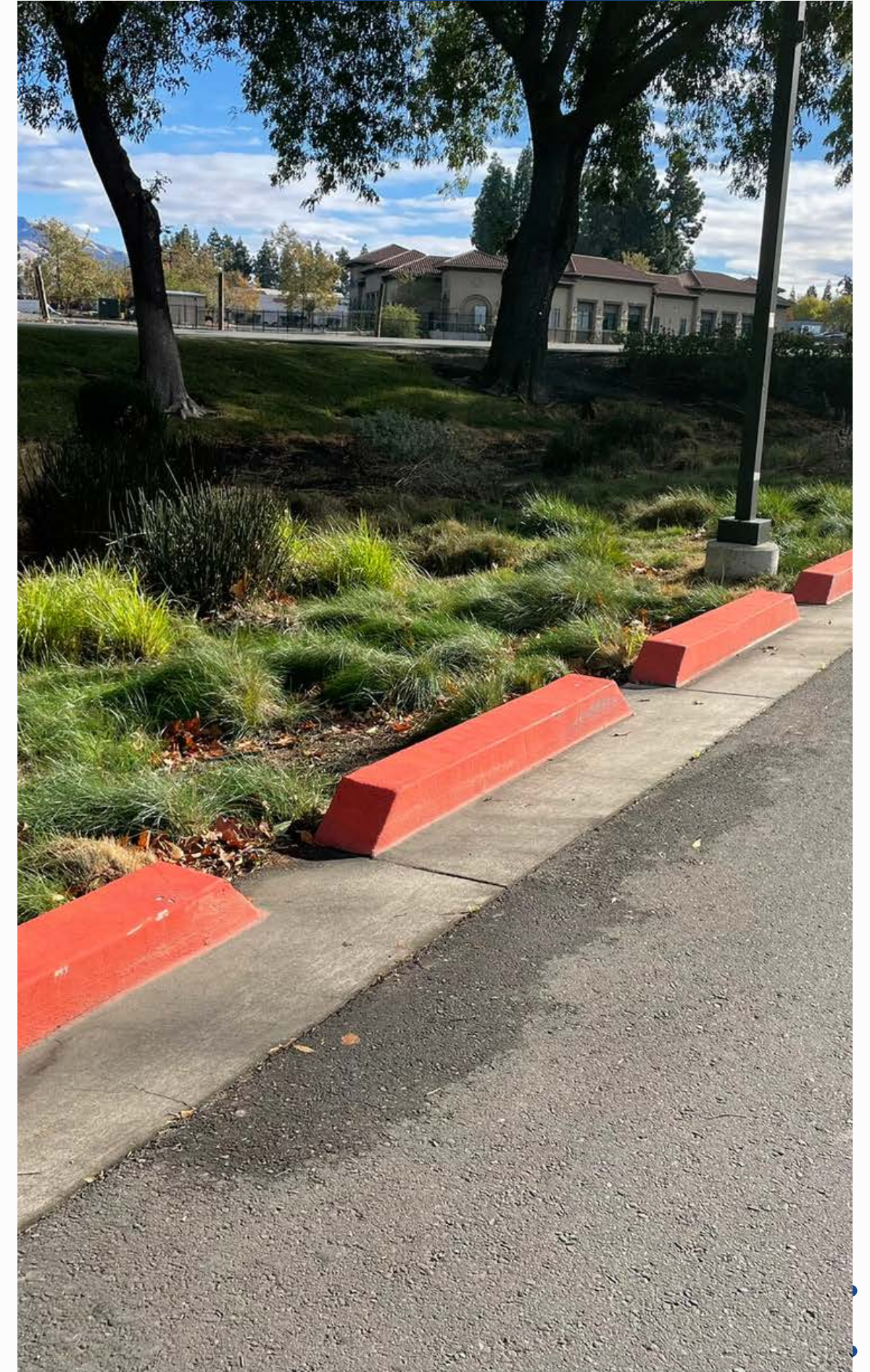


SMCWPPP

Asset Management Update

8/20/2026

Presented by:
Jeff Sinclair, EOA INC.



MUNICIPAL REGIONAL STORMWATER PERMIT

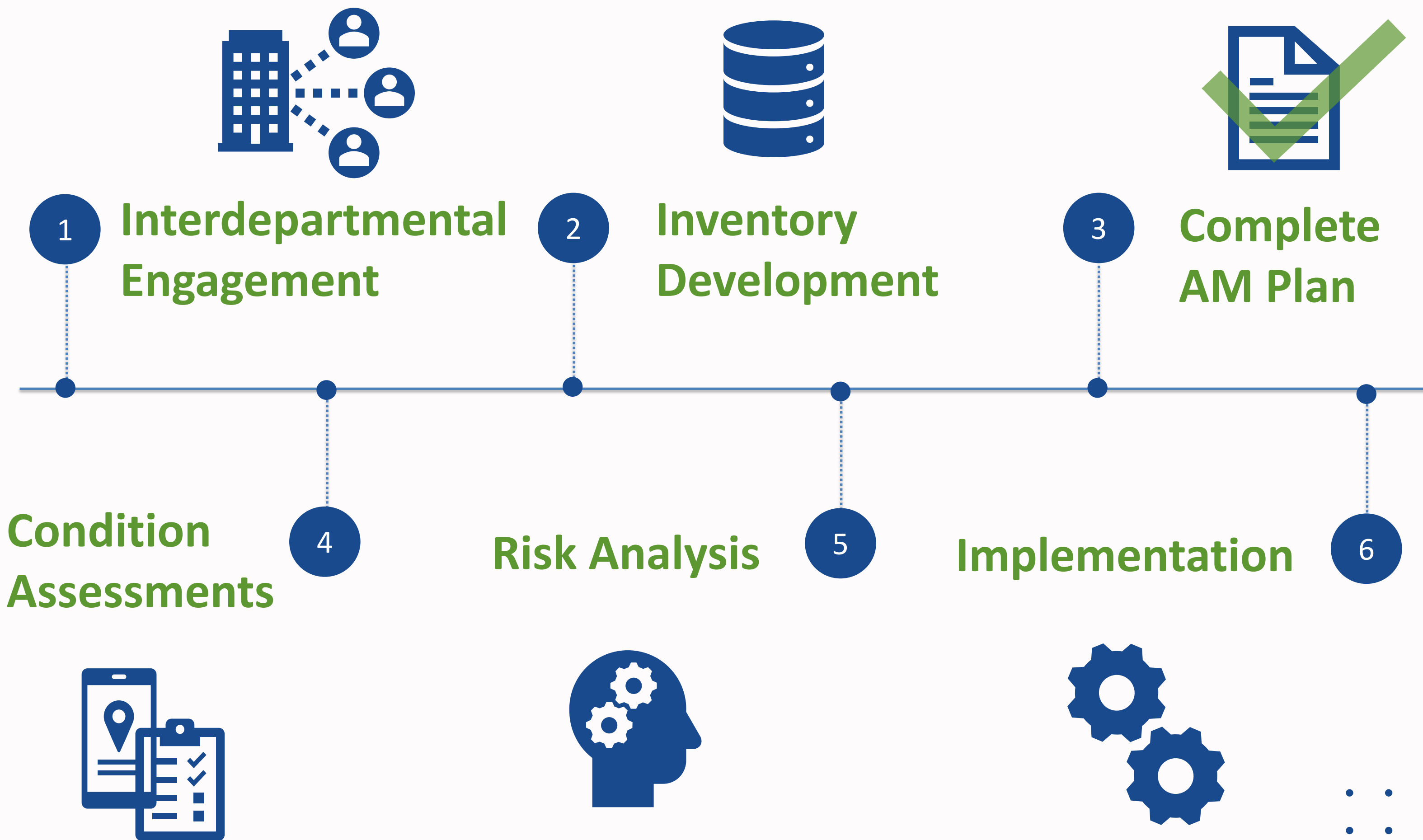
Develop and implement plan to ensure the satisfactory condition of all **publicly-owned structural controls** that *protect water quality*.

Include:

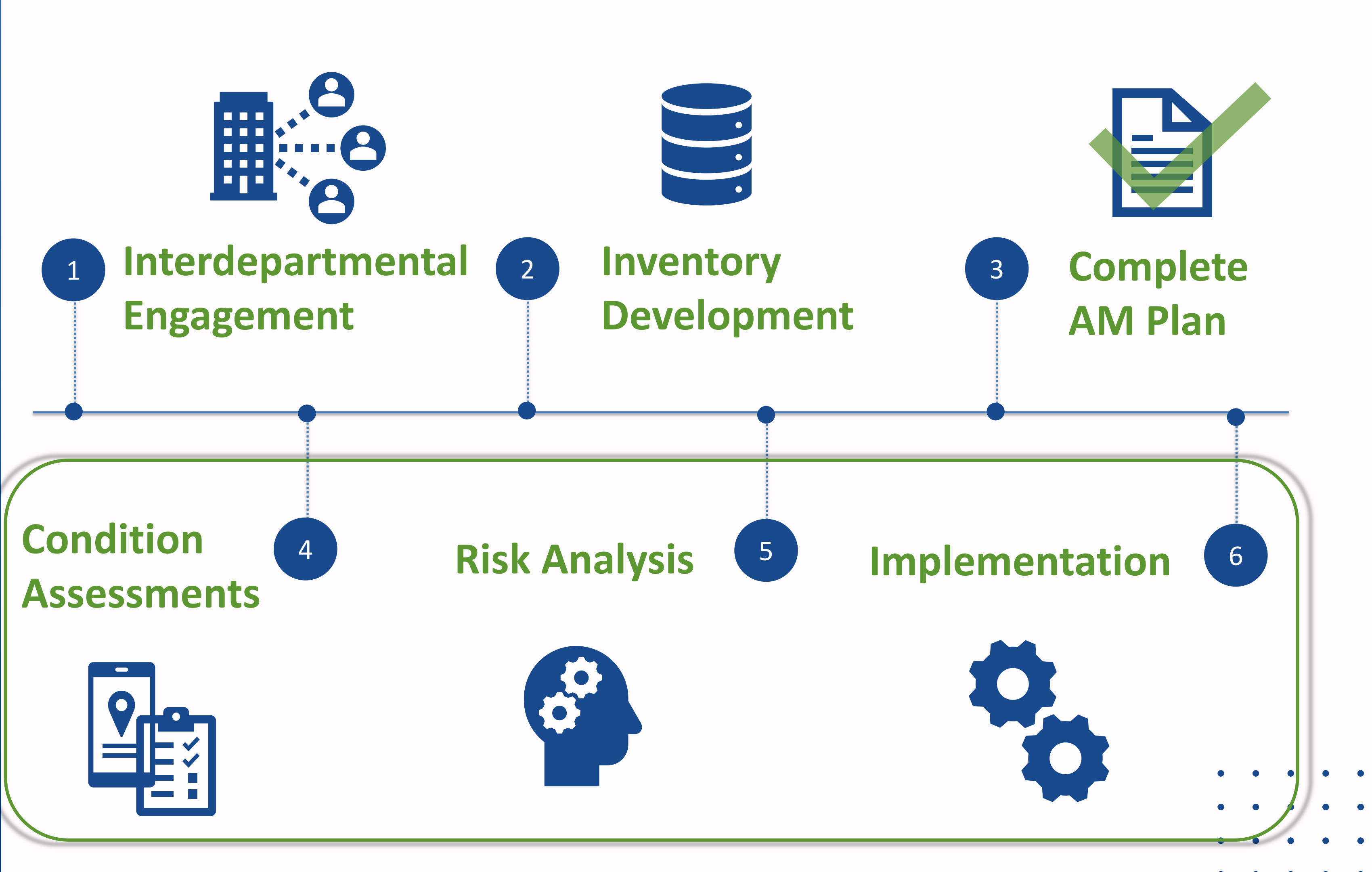
- Description of asset categories
- Inventory of existing assets
- Cost evaluation
- Operations and Maintenance Plan that describes processes for:
 - Evaluating risk
 - Condition assessments
 - Prioritizing and scheduling O&M



Asset Management Roadmap



Asset Management Roadmap



CONDITION ASSESSMENT PURPOSE

Condition Assessments are intended to:

1

Generate score based on aggregated assessment (including good & bad)

2

Identify trends and set frequencies

3

Identify maintenance need category



Condition Assessments can be a part of inspections or work orders but require less focus on capturing specific issues for correction

Condition Assessments



DEFINE SCORING



CONDUCT TRAINING



COLLECT DATA

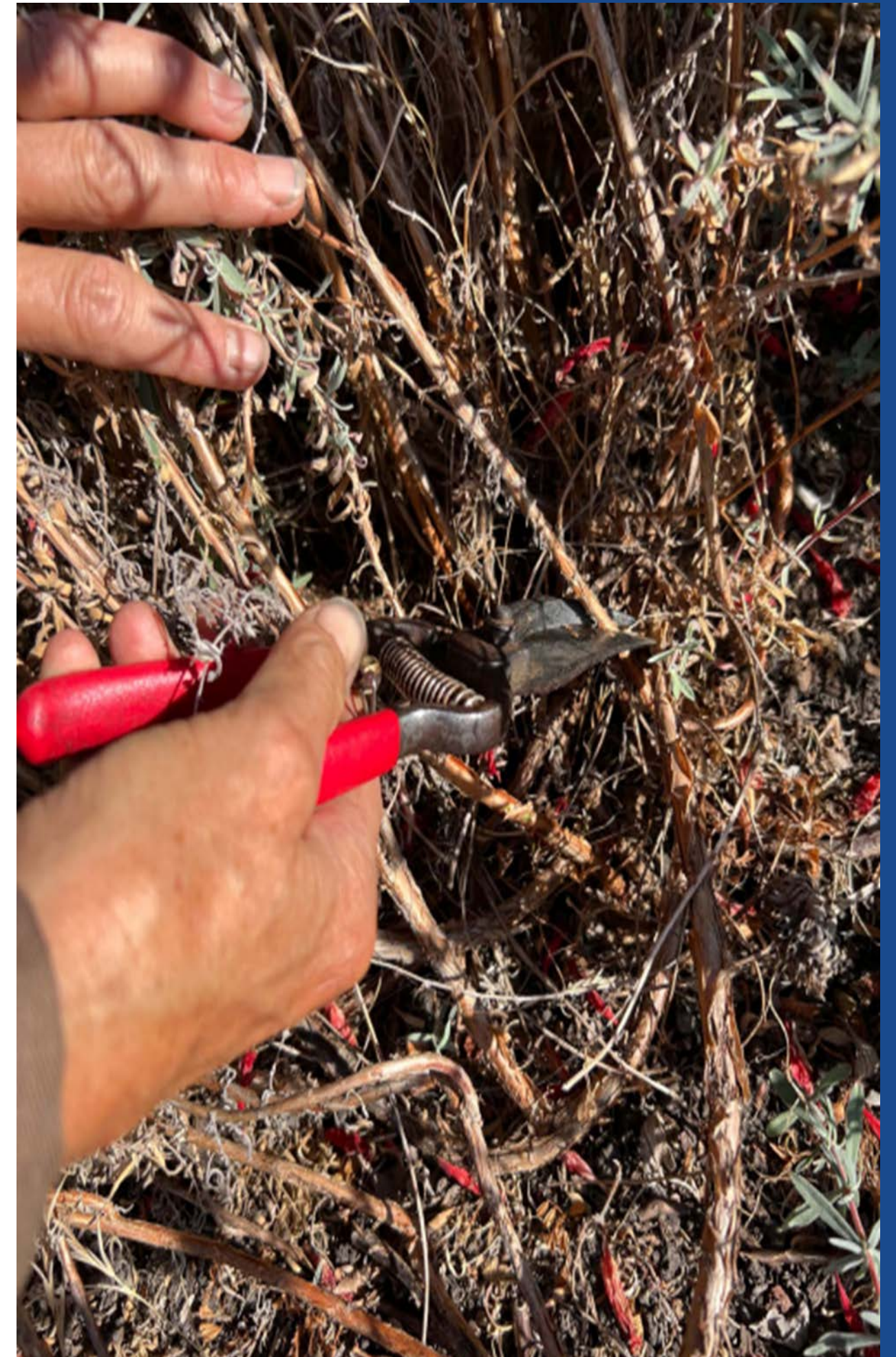


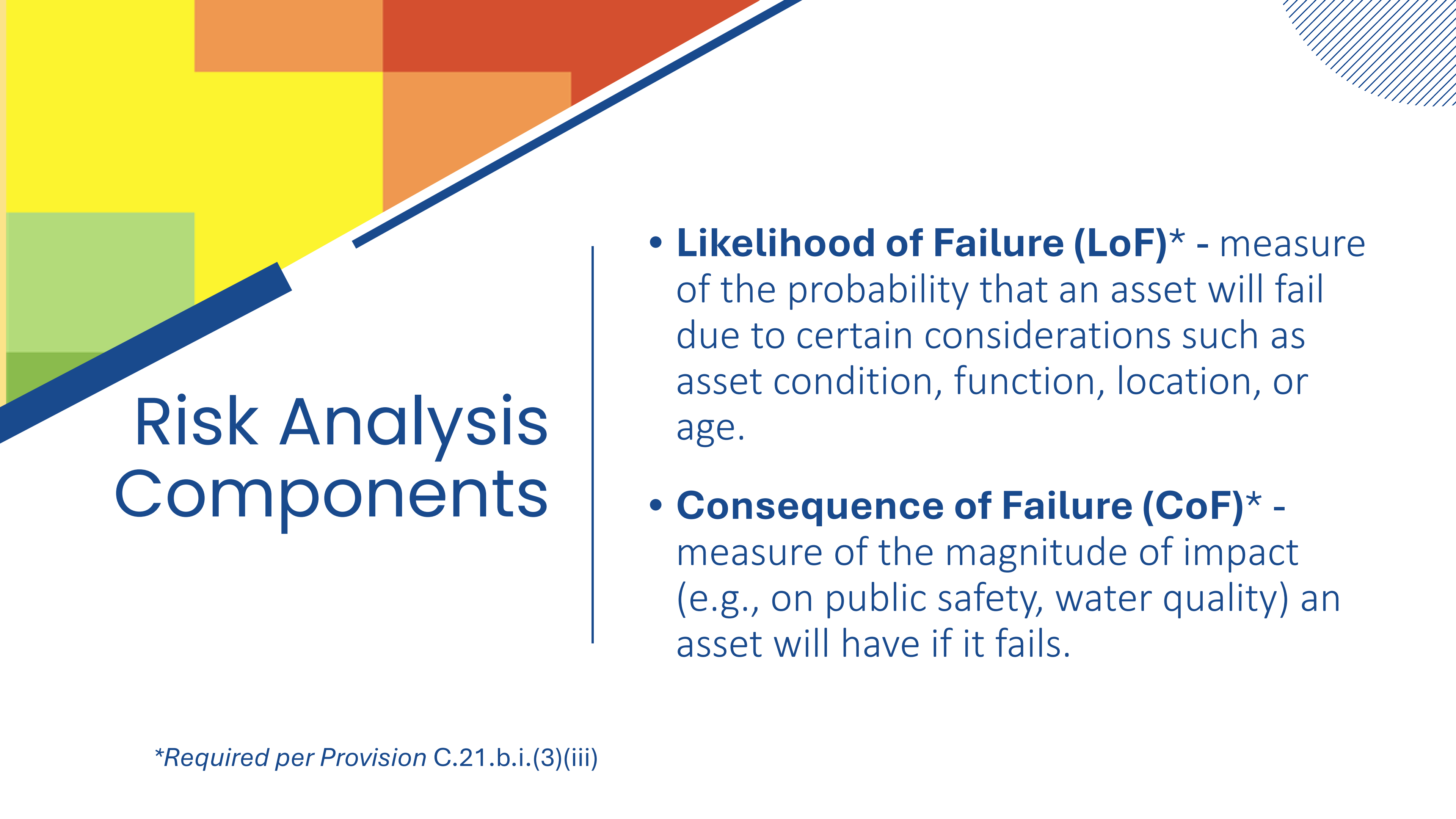
CALIBRATE AND RESCORE



Post Condition Assessments

- QAQC assessment results
 - Review maintenance descriptions and photos
- Assign maintenance tasks to correct issues
 - Determine current frequencies and estimated level of effort
- Track actual costs
 - Use case study locations to develop average costs for projections
- Adjust frequencies as needed based on results and risk





Risk Analysis Components

- **Likelihood of Failure (LoF)*** - measure of the probability that an asset will fail due to certain considerations such as asset condition, function, location, or age.
- **Consequence of Failure (CoF)*** - measure of the magnitude of impact (e.g., on public safety, water quality) an asset will have if it fails.

**Required per Provision C.21.b.i.(3)(iii)*

LoF and CoF Scoring

LoF PARAMETERS:	1 Unlikely	2 Possible	3 Likely	4 Very Likely
Condition Assessment Score	Excellent	Good	Moderate	Poor
Location in high pedestrian traffic area	Low	Moderate	High	Very High
Mechanical conveyance	Not Present	--	--	Present

CoF PARAMETERS:	1 Minor	2 Moderate	3 Major	4 Severe
Compliance (Drainage Area Size)	≤ 0.5 acre	0.6 - 1 acres	1 - 5 acres	> 5 acres
Cost of Replacement (Capital Cost)	\$	\$\$	\$\$\$	\$\$\$\$

Implementation Next Steps:

- Maintain interdepartmental coordination
- Refine cost estimates
- Interface with asset management system
- Develop supporting documentation:
 - o SOPs & Guidance
 - o Role/Responsibility list
 - o Schedules
- Adaptive management





THANK YOU!

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Item 9 (Information) –
Receive information on
the reissuance of the
Municipal Regional
Stormwater Permit.



Municipal Regional Permit Reissuance

- The current Municipal Regional Stormwater Permit (MRP 3) became effective July 1, 2022, and had an expiration date of June 30, 2027.
- Regional Water Board staff plan to administratively extend the MRP 3 for one year to allow more time for drafting the permit, receiving input from stakeholders and for countywide program budgeting purposes.
- The Bay Area Municipal Stormwater Collaborative (BAMSC) and Regional Water Board staff initiated the reissuance process in October 2025 by convening workgroups to support the reissuance process, focusing on key high-priority provisions where there are substantial changes being proposed.



Municipal Regional Permit Reissuance

- **Updated MRP 4 schedule:**

MRP 4 Reissuance Schedule (updated 7/21/2026)			
Task Name	Start	Finish	Duration (days)
Permit reissuance kickoff meeting	10/30/2025	10/30/2025	0
Provision-specific workgroup meetings	4/2/2026	10/9/2026	190
Water Board staff write Administrative Draft Tentative Order (provisions only)	5/1/2026	12/31/2026	244
Report of Waste Discharge due	12/31/2026	12/31/2026	0
Permittee and U.S. EPA informal comment period - Administrative Draft (provisions only)	1/4/2027	2/18/2027	45
Public Comment Period - formal draft	4/14/2027	6/13/2027	60
Board Workshop	5/12/2027	5/13/2027	2
Board meeting - Adoption Hearing	10/13/2027	10/14/2027	2
Effective date of reissued permit	7/1/2028	6/30/2033	5 years



MRP Reissuance Workgroups

- **High-Priority Provisions:**
 - C.3 – New Development and Redevelopment, C.8 – Water Quality Monitoring, C.10 – Trash Load Reduction, and C.11/12 – PCBs and Mercury Load Reductions
 - BAMSC permittees and program managers share constructive feedback and lessons learned with Regional Water Board staff related to their experiences in implementing the high-priority provisions during the MRP 3 term
- **Medium-Priority Provisions:**
 - C.5 – Illicit Discharge Detection and Elimination, C.6 Construction Site Controls, C.14 – Bacteria Control for Impaired Water Bodies, C.15 – Exempted and Conditionally Exempted Discharges, C.17 – Unsheltered Homelessness, C.20 – Cost Reporting, and C.21 – Asset Management
- These workgroups are in the process of being formed and having their initial kick-off meetings.



MRP Reissuance Workgroups

- **Low-Priority Provisions:**
 - A – Discharge Prohibitions, B – Receiving Water Limitations, C.1 – Compliance with Discharge Prohibitions and Receiving Waters Limitations, C.2 – Municipal Operations, C.4 – Industrial and Commercial Site Controls, C.6 – Construction Site Control (moved to “medium priority”), C.7 – Public Information and Outreach, C.9 – Pesticides Toxicity Control, C.13 – Copper Controls, C.16 – Discharges to Areas of Special Biological Significance, C.18 – Control of Sediment Discharges from Coastal San Mateo County Roads, C.22 – Annual Reports, C.23 – Modifications to this Order, and C.27 – Effective Date.
- Two meetings were held in early 2026 for “low priority” provisions – for which permittees and Regional Water Board staff do not anticipate significant changes being made.



Report of Waste Discharges (ROWD)

- Regional Water Board staff recently provided a reminder and update that the Report of Waste Discharges (ROWD) are due 180 days prior to MRP 3's expiration date, and that program managers to plan to submit the ROWDs by not later than Thursday, December 31, 2026.
- As in past permit cycles, the ROWD will be developed by the Countywide Stormwater Program on behalf of the San Mateo County permittees, but the Duly Authorized Representatives from each local agency will need to certify by signature the submission to the Regional Water Board.



Report of Waste Discharges (ROWD)

The ROWD will include the following components:

1. A completed Form 200
2. A list of program member agencies and contacts
3. A list of documents incorporated by reference, including, but not limited to:
 - a. MOAs/MOUs confirming the relationship of the member agencies to the countywide program
 - b. BAMSC or related projects, such as projects of regional significance, being completed collectively
 - c. Annual Reports
 - d. Reasonable Assurance Analysis Reports for MRP Provisions C.11 and C.12
 - e. Provision C.8 Integrated Monitoring Report



Item 10 (Information) –
Receive storm water
program related
information and
announcements.



Item 11– Regional Water Board Report



Item 12 – Executive Director Report



Item 13 – Member Reports



Item 14 – Adjourn