San Luis Obispo County Integrated Regional Water Management (IRWM) Region

Stormwater Resource Plan (SWRP) Technical Advisory Committee (TAC) Area Meeting

FEBRUARY 26-28, 2018

Agenda

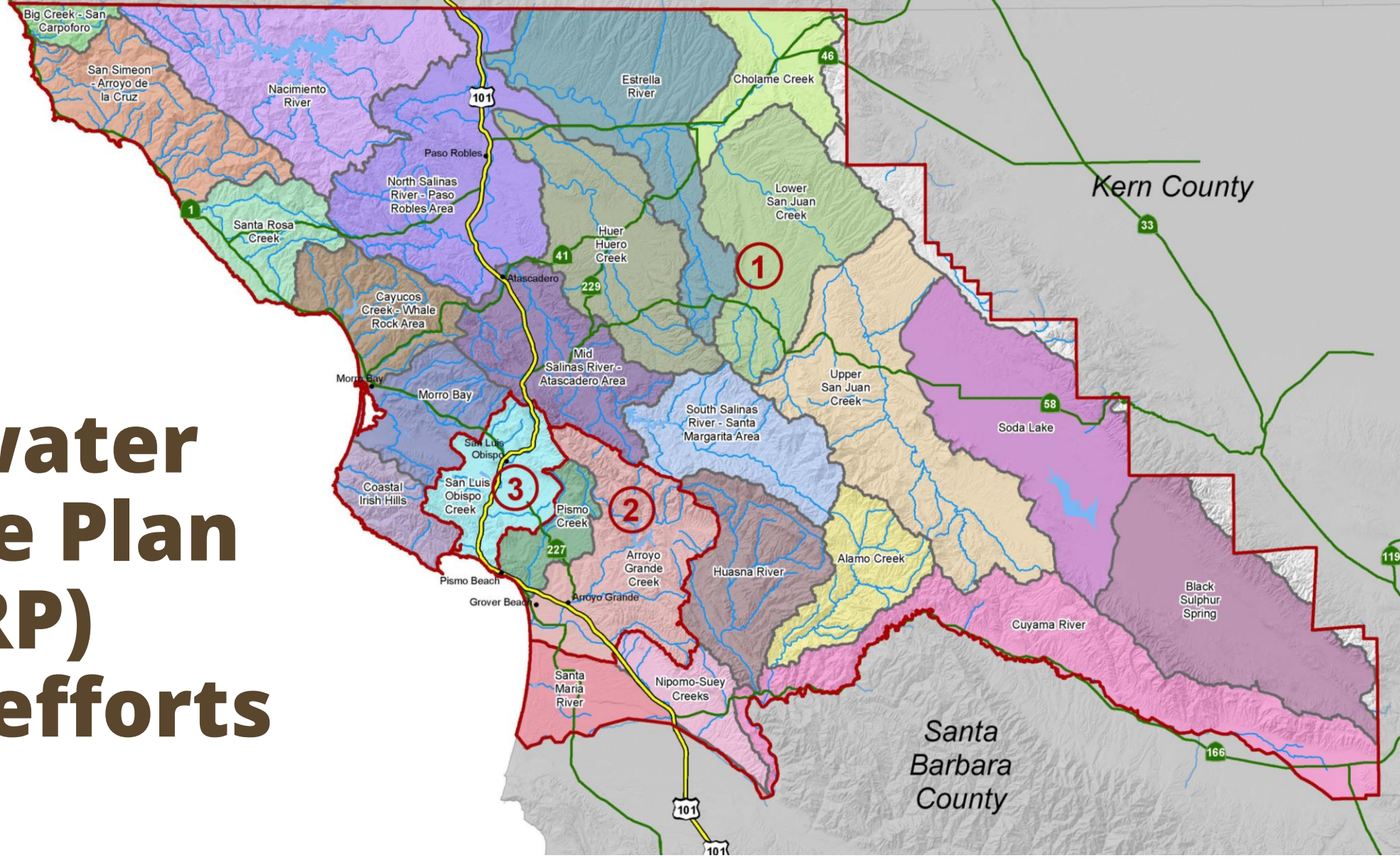
- Introductions
- Stormwater Resource Plan Development process
- Stakeholder Involvement
- Watershed Characterization & Benefit Quantification
- Project Solicitation, Evaluation, and Prioritization
- Schedule/Milestones & Next Actions

Stormwater Resource Plan (SWRP)

Senate Bill (SB) 985 requires a stormwater resource plan as a condition of receiving State bond grant funds for **storm water capture and dry-weather runoff projects**

- Proposition 1 Integrated Regional Water Management (IRWM) Grants
- Proposition 1 Stormwater Grants

Stormwater Resource Plan (SWRP) regional efforts



COUNTY of SAN LUIS OBISPO

www.slocounty.ca.gov

SWRP Project Management

Project Management Team (PMT)

- County of San Luis Obispo Public Works
- City of Arroyo Grande
- Coastal San Luis Resource Conservation District
- Upper Salinas Las Tablas Resource Conservation District

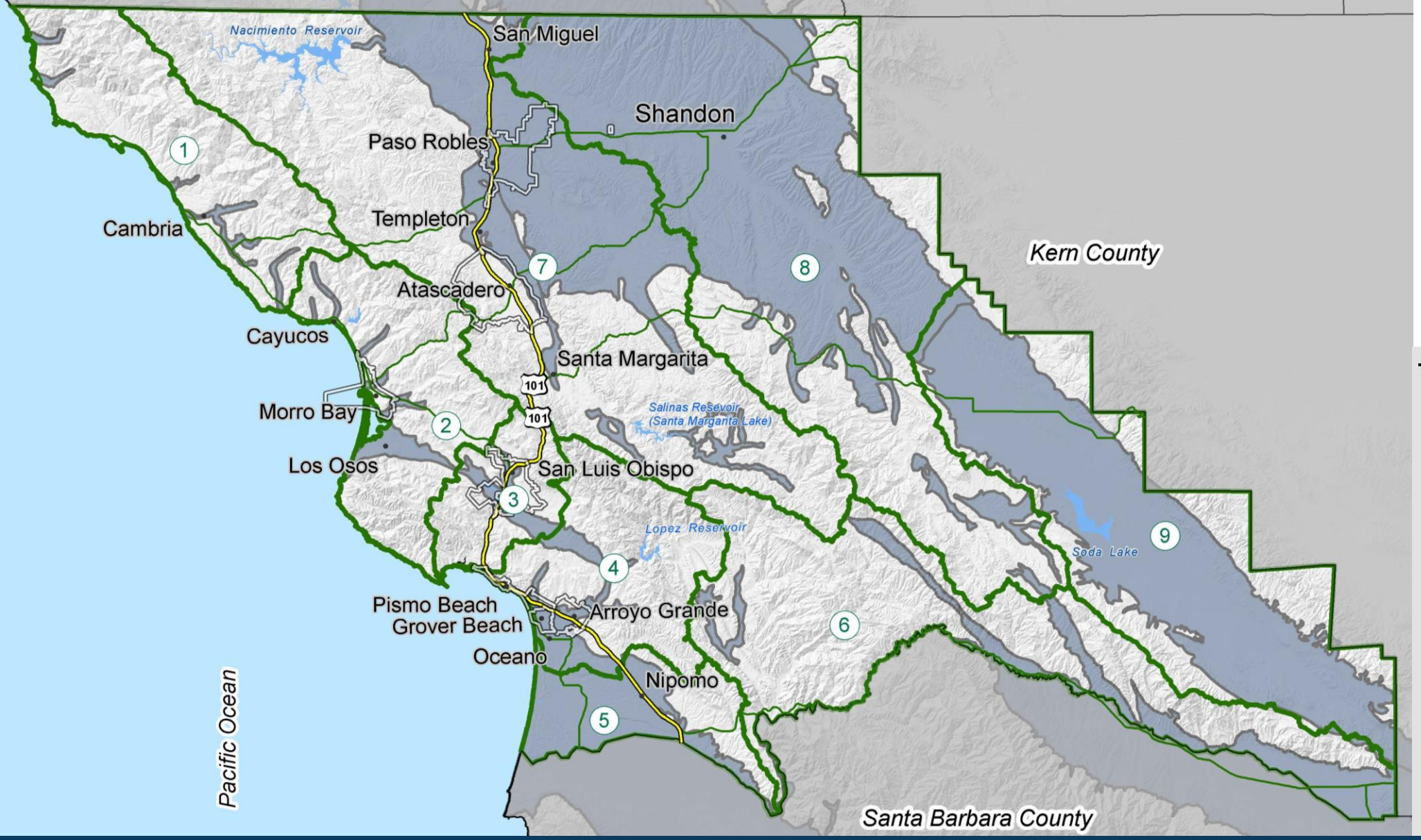
Technical Consultant

- Stillwater Science

Technical Advisory Committee (TAC)

- State Water Board and Regional Water Board reps
- Interested parties such as
  - municipalities
  - water suppliers
  - local agencies
  - non-governmental organizations
  - public utilities
  - regulatory agencies

Nine (9) TAC Areas



TAC Areas:

1. San Simeon /Cambria
2. Cayucos / Morro Bay / Los Osos
3. San Luis Obispo Creek
4. Arroyo Grande/Pismo Creeks
5. Nipomo
6. Cuyama River
7. Salinas River
8. Estrella River
9. Carrizo Plain

No.	TAC Area	TAC Lead	Representative
1	San Simeon/Cambria	Upper Salinas Las Tablas RCD	George Kendall, Board Member
2	Cayucos/Morro Bay/Los Osos	City of Morro Bay	Damaris Hanson, Environmental Programs Manager
3	San Luis Obispo Creek	City of San Luis Obispo	Freddy Otte, Biologist
4	Arroyo Grande/Pismo Creeks	City of Arroyo Grande	Robin Dickerson, City Engineer
5	Nipomo	County of San Luis Obispo	Ron Munds, County Public Works
6	Cuyama River	County of San Luis Obispo	Ron Munds, County Public Works
7	Salinas River	City of Paso Robles	David LaCaro, Stormwater Program Manager
8	Estrella River	Shandon-San Juan Water District	Willy Cunha, Director Shandon San Juan Water District
9	Carrizo Plain	County of San Luis Obispo	Ron Munds, County Public Works

Roles & Responsibilities

TAC Leads:

- TAC Member, contributor, review, plan development
- Within each TAC Area
- Regular meetings until project completion

Advisors / Stakeholders:

- Contributor, review, plan development

Tasks for the TAC

- Develop SWRP water management goals and objectives
- Formalize member roles and responsibilities
- Develop a meeting schedule (min. 4 meetings)
- Review and approve admin draft, public draft and final draft SWRP

Draft Objectives for the SWRP

1. **Improved Resource Management at regional & watershed-scale**
2. **Stronger Integration of Programs, Projects, and Stakeholders**
3. Obtaining and Maintaining Water Quality Parameters
4. Address the Effects of Climate Change
5. Assess and Incorporate DACs Needs
6. Integrate Groundwater Basin Management and GSAs
7. Ecosystem Enhancement for Fish & Wildlife
8. Develop an Approach to Form Continual Adaption of SWRP

Stakeholder Involvement

Date	Goal
February 26-28 2018	**Kick-off meetings**: Introductory meeting to educate stakeholders about the SWRP purpose, planning and input process, and determination of stakeholder participation
June 2018	**Additional Stakeholder meetings:** Discuss development of projects, project prioritization and Perspectives Analysis, Consultant Team presentations
September 10 – October 10, 2018	30-day Comment Period for the Public Draft SWRP
September 2018	**Public Draft SWRP review meeting**: Obtain comments and answer questions from all stakeholders at one location in San Luis Obispo, Consultant Team presentations, present steps forward for implementation funding for identified projects

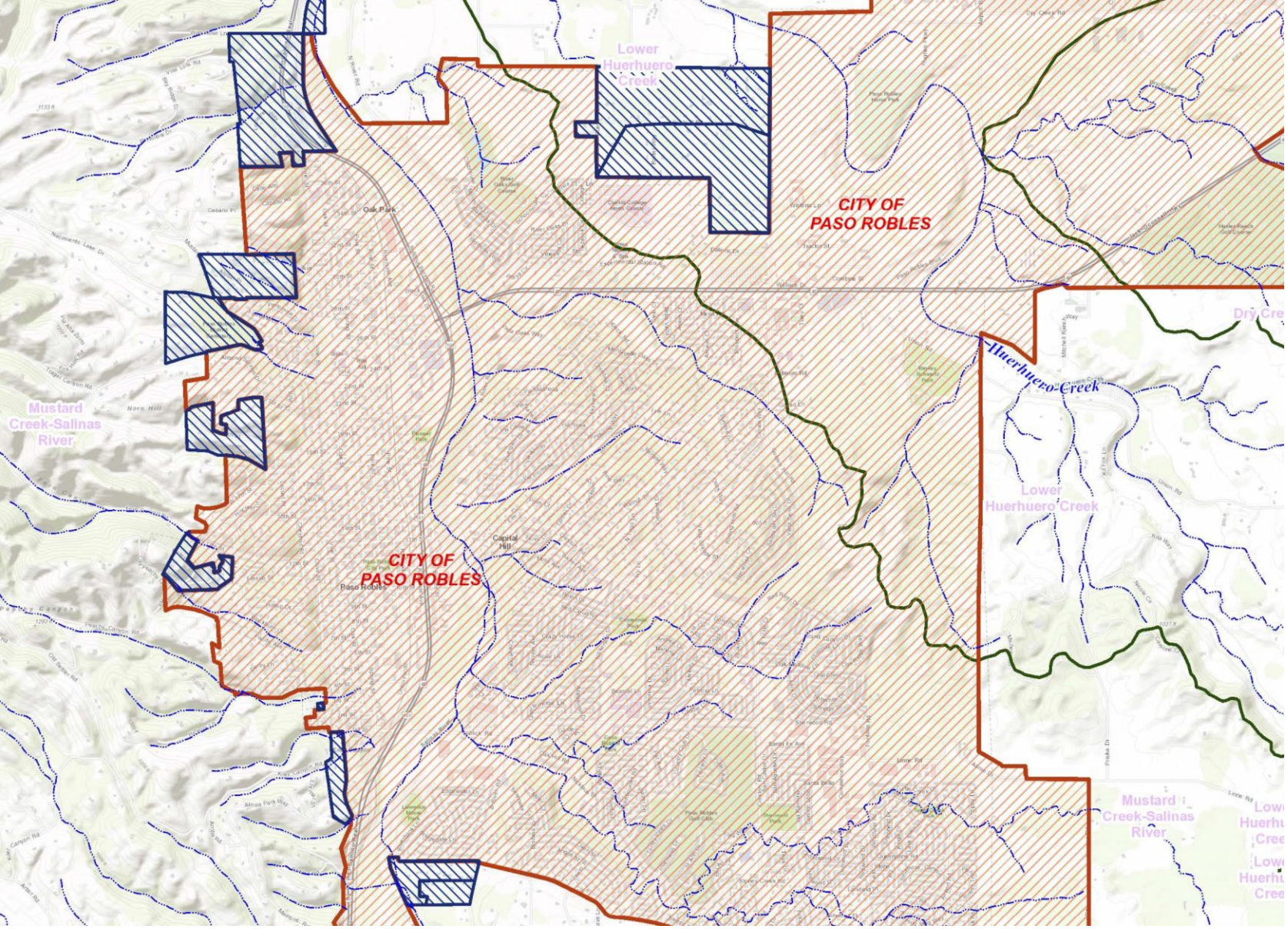
Stakeholder Role

- **Submit projects** for inclusion in the SWRP
- **Assist TAC members** with input and recommendations
- Contribute information and data for plan development
  - Existing data, maps, written reports
- **Provide local insight** and strategies for implementation
- Conduct outreach and education efforts
- Provide review/comments on the draft and final plans

PROJECT SCHEDULE 2017-18	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1. TAC & Stakeholder Meetings		★	★				★			★			★
2. Call for Projects				★									
2. Gather and review existing data													
3. Complete mapping													
4. Urban pollutants and BMPs													
5. Quantitative evaluation													
6. Prioritization													
7. SWRP preparation & submittal to SWRCB													★

Watershed Characterization

- Why watershed(s) appropriate for stormwater management with multiple-benefit approach
- Description of internal boundaries (e.g., stormwater service area, groundwater sustainability areas)
- Small MS4 Permittees (for NPDES compliance)
    - All incorporated cities
    - Unincorporated “urban” areas (e.g., Templeton)



Stormwater Service Area (MS4 Permit Boundary) for **City of Paso Robles**

Stormwater Service Area (MS4 Permit Boundary) for **County of San Luis Obispo**

Watershed Boundary
USGS Hydrologic Unit (HU) 12

Benefit Quantification

Each project/program should address:

1. At least **two (2) or more MAIN BENEFITS**
2. As many as feasible **ADDITIONAL BENEFITS**

WATER QUALITY while contributing to compliance with applicable permit and/or TMDL requirements

MAIN BENEFIT

- Increased filtration and/or treatment of runoff

ADDITIONAL BENEFIT

- Nonpoint source pollution control
- Reestablished natural water drainage and treatment

WATER SUPPLY through groundwater management and/or runoff capture and use (includes “on-farm” recharge)

MAIN BENEFIT

- Water supply reliability
- Conjunctive use

ADDITIONAL BENEFIT

- Water conservation

FLOOD MANAGEMENT

MAIN BENEFIT

- Decreased flood risk by reduction runoff rate and/or volume

ADDITIONAL BENEFIT

- Reduced sanitary sewer overflows

ENVIRONMENTAL

MAIN BENEFIT

- Environmental and habitat protection and improvement, including
  - wetland enhancement/creation;
  - riparian enhancement; and/or
  - instream flow improvement

- Increased urban green space

ENVIRONMENTAL

ADDITIONAL BENEFIT

- Reduced energy use, greenhouse gas emission, or provides a carbon sink
- Reestablishment of the natural hydrograph
- Water temperature improvements

COMMUNITY

MAIN BENEFIT

- Employment opportunities provided
- Public education

ADDITIONAL BENEFIT

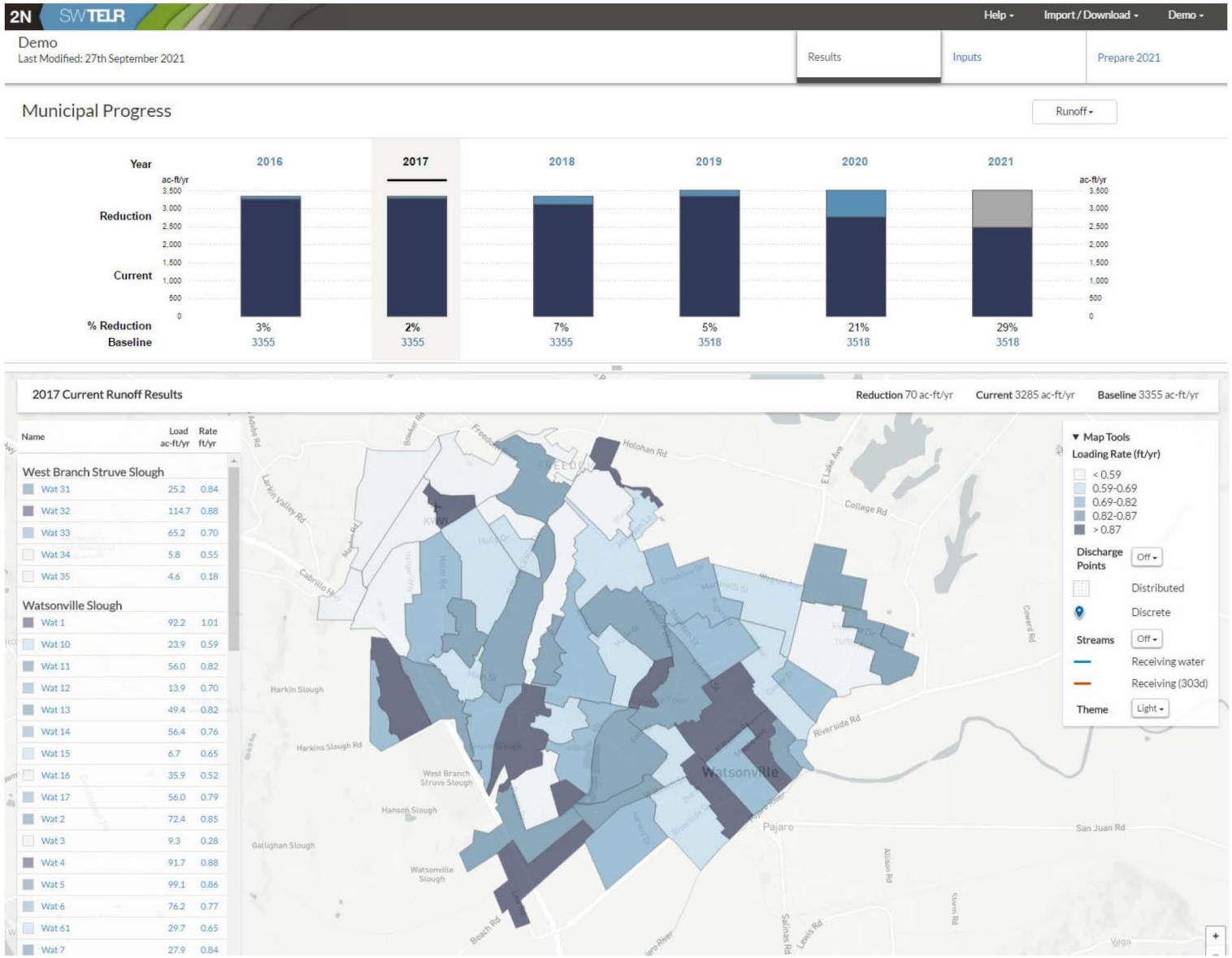
- Community involvement
- Enhanced and/or created recreational and public use areas

Benefit Metrics - examples

- Pollutant load reduction in pounds per day
- Volume treated/captured in acre-feet per year
- Dollars per volume of augmented supply
- Flooding reduction in cubic feet per second

Benefit Metrics - examples

- Size of riparian habitat enhanced in acres
- Reduced temperature in degrees
- Population served
- Number of jobs produced



Pollutant Load Analysis

- **Stormwater Tool to Estimate Load Reduction (swTELR)**

2NDNATURE
ecosystem science + design

Project Solicitation

- Call for Projects – **due March 2**
  www.surveymonkey.com/r/6QM39GD
- Project Types
  - Regional Capital Improvement Projects
  - Parcel-Scale Low Impact Development (LID)
  - Green Street
  - Other

Project Evaluation & Prioritization

- **Project Management Team (PMT)**
  Evaluate projects for completeness

- **TAC members**
  Coordinate with TAC Area Stakeholders on project prioritization

Table 4-3. Parcel prioritization criteria for regional stormwater capture

	Points						Weight Factor
	0	1	2	3	4	5	
Parcel Land Use	--	--	Schools/Golf Courses	Public Buildings	Parking Lot	Park / Open Space	--
Impervious Area (%)	X < 40	40 ≤ X < 50	50 ≤ X < 60	60 ≤ X < 70	70 ≤ X < 80	80 ≤ X < 100	--
Parcel Size (acres)	0.25 ≤ X < 0.5	0.5 ≤ X < 1	1 ≤ X < 2	2 ≤ X < 3	3 ≤ X < 4	4 ≤ X	--
Hydrologic Soil Group	--	D	Unknown	C	B	A	--
Slope (%)	5 < X ≤ 10	4 < X ≤ 5	3 < X ≤ 4	2 < X ≤ 3	1 < X ≤ 2	0 < X ≤ 1	--
Proximity to Flood-prone Channels (miles)	Not in sub-basin	3 < X	--	1 < X ≤ 3	--	X ≤ 1	2
Contains PCB Risk Areas	None	--	--	Moderate	--	High	2
Currently planned by City or co-located with other City project	No					Yes	2
Drains to TMDL water	No					Yes	
Above groundwater basin	No		Yes				--
Augments water supply	No	Yes					--
Water quality source control	No	Yes					--
Reestablishes natural hydrology	No	Yes					--
Creates or enhances habitat	No	Yes					--
Community enhancement	No	Yes					--

Example: Project Prioritization (San Mateo County SWRP)

Projects prioritization elements

- Supported by entities with long-term funding
- Use metrics-driven approach and detailed analysis
- Located on public lands
- Augment local water supplies
- Preserve, restore or enhance watershed processes
- Create or restore habitat, open space, parks, etc.

Next Actions for Stakeholders

- Submit information for any projects by March 2
- Provide feedback during plan development
- Engage with **TAC Area Lead** to
    - identify multiple benefit projects
    - discuss prioritization element

Schedule/Updates

- TAC Area stakeholder meetings – February 26-28
- Call for Projects – **due March 2**

  surveymonkey.com/r/6QM39GD
- Next TAC Meeting – April 9, 2018
- Sign-up for mailing list for announcements/updates

  slocounty.ca.gov/pw/swrp