

WELL ORDINANCE JOINT WORKING GROUP MEETING

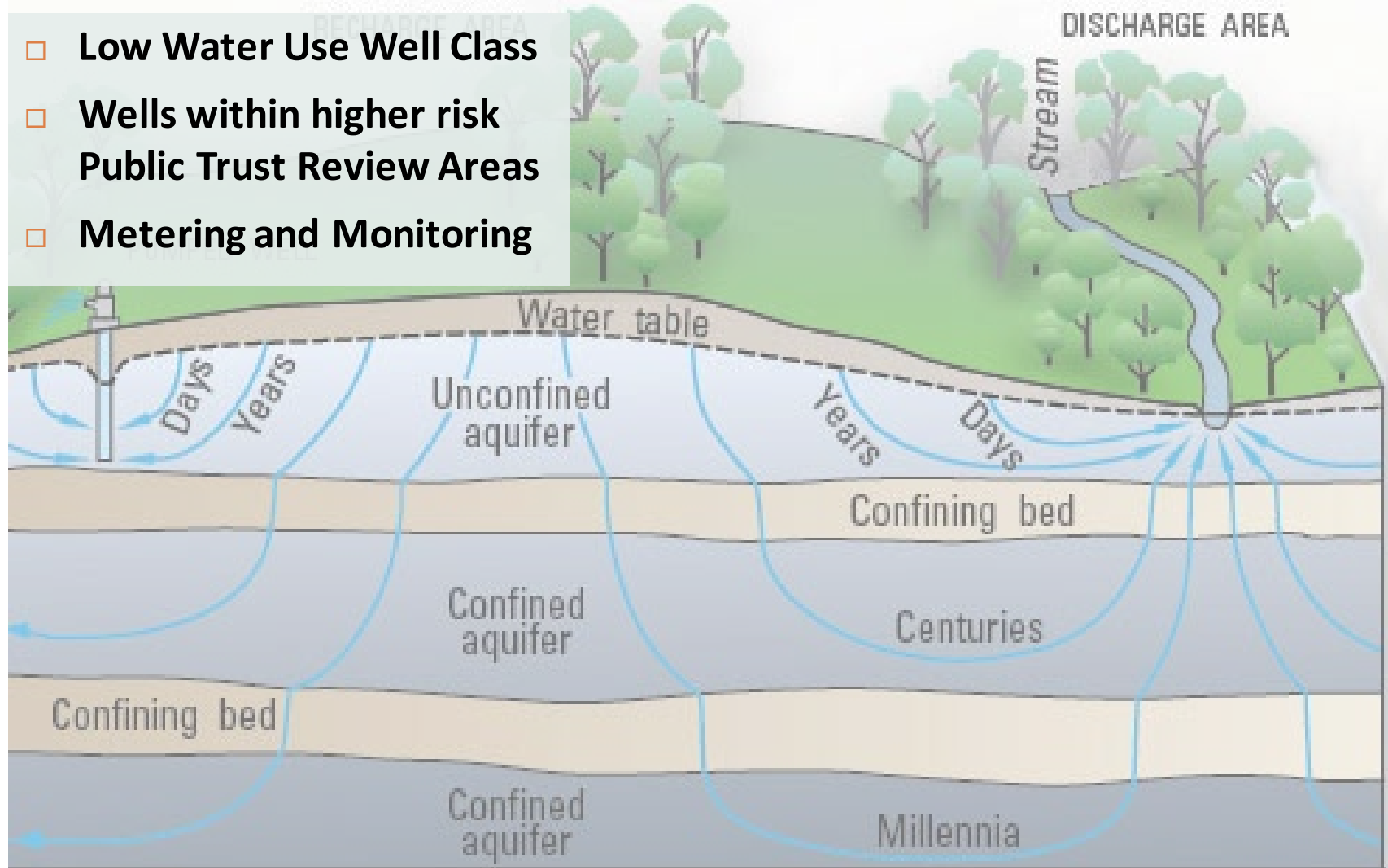
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February 01, 2023

Working Groups Outcome: Consensus Recommendations on Topics

Public Trust / GW Review Area	<p>What waterways require impacts analysis under the public trust doctrine?</p> <p>What public trust resources and uses are sensitive to streamflow depletion due to groundwater extraction?</p> <p>What aquifers are interconnected with public trust waterways and groundwater extraction from these areas is likely to have an adverse impact on public trust resources?</p>
Well Classification: Ministerial and Discretionary	<p>What classes or categories of wells receive a ministerial (routine) permit?</p> <p>What well classes receive a discretionary (more tailored review)?</p> <p>Replacement domestic wells, public water wells, zero net use, etc.</p>
Well Implementation Requirements – Conservation and other Measures	<p>What water conservation measures should be required of each class of wells?</p> <p>Water efficient landscape regulations, maximum allowed use, etc.</p> <p>Other measures: groundwater recharge, farm practices, etc.</p>
Impact Definitions	<p>What is a substantial adverse impact? (watershed, waterway, basins)</p> <p>What methods should be employed to evaluate adverse impacts?</p>
Discretionary Review Process	<p>What is the nature of that review? (CEQA, other)</p> <p>What requirements are defined by what anticipated impacts?</p>
Monitoring Requirements	<p>What groundwater monitoring conditions (water meter readings, depth to water measurements, etc.) should be required of specific classes of wells?</p>
Adaptation	<p>What information or discovery will trigger the need to revisit these policies or approaches?</p>

Today's Presentation Topics

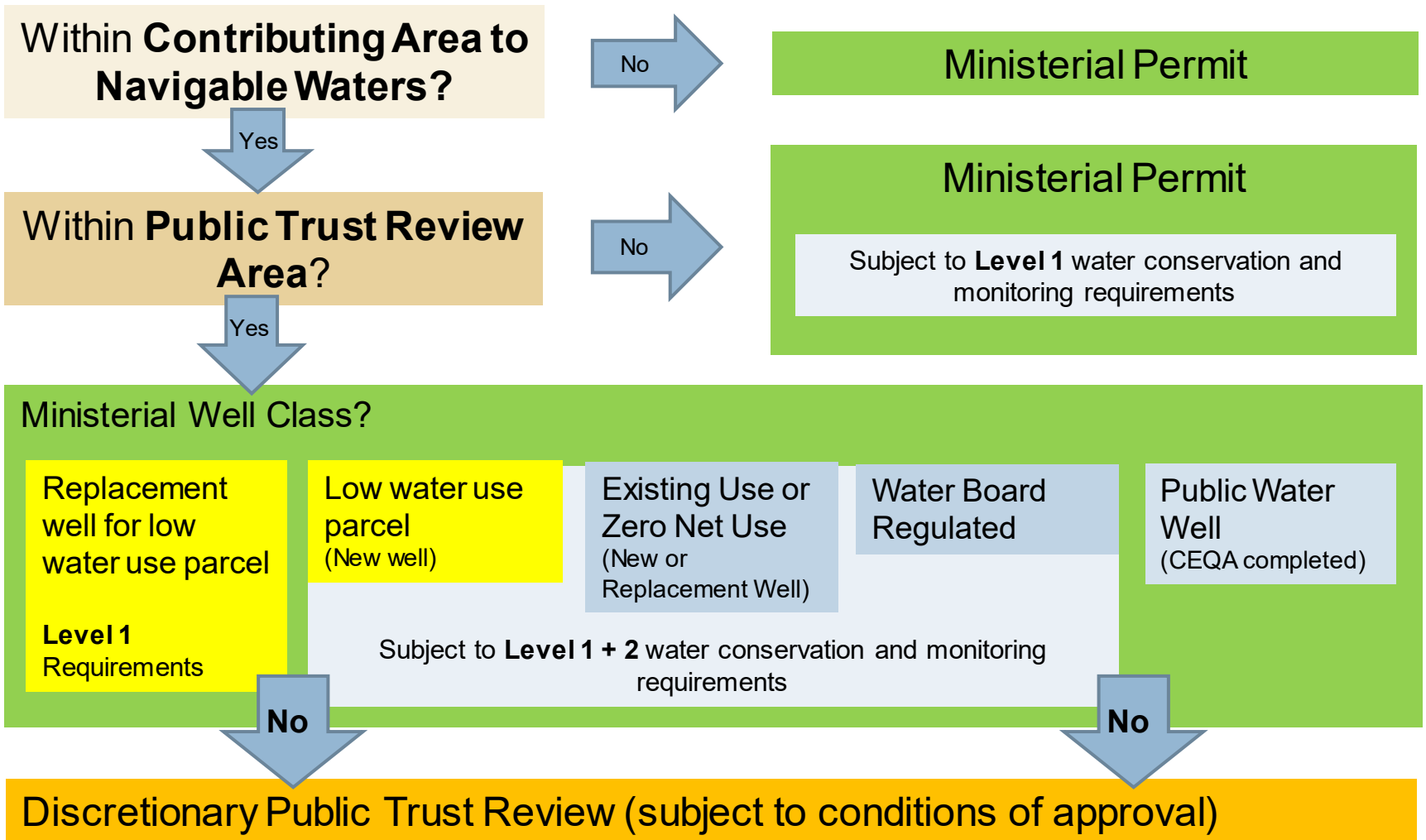
- **Low Water Use Well Class**
- **Wells within higher risk Public Trust Review Areas**
- **Metering and Monitoring**



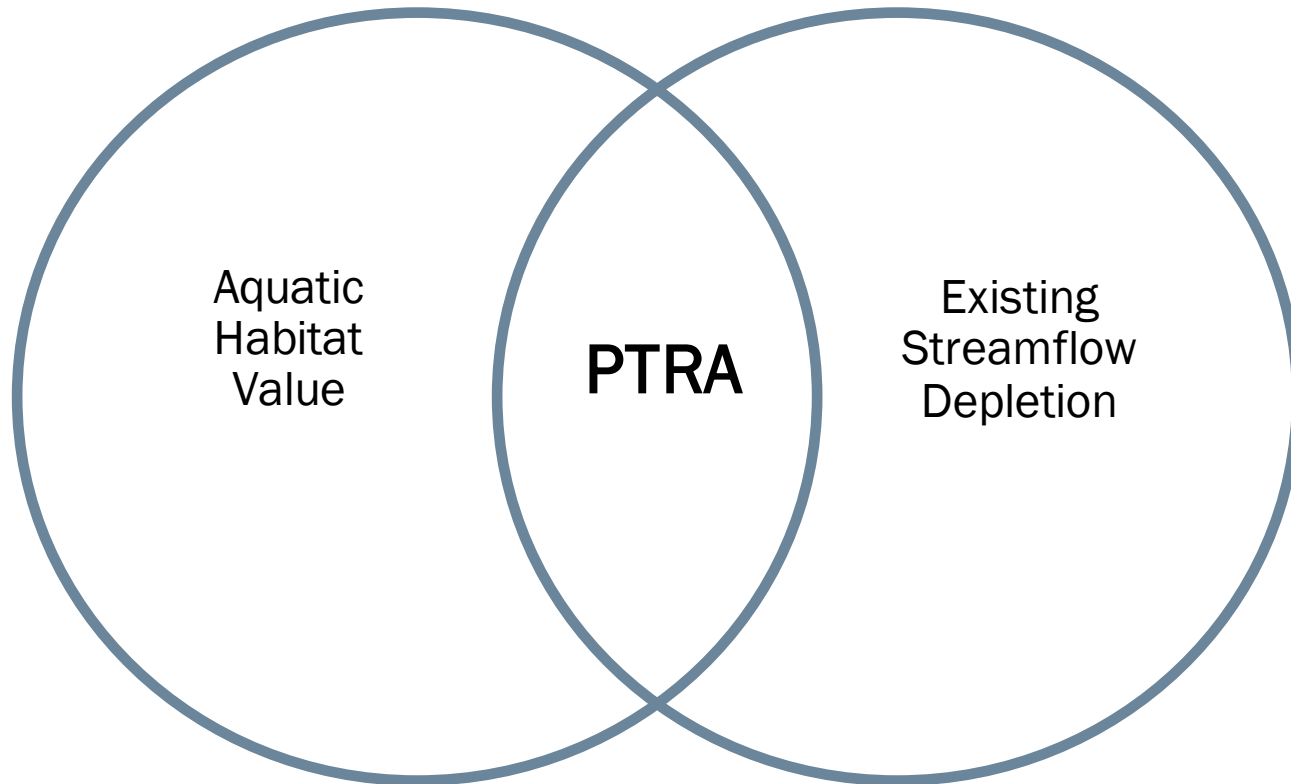
Revised Permit Screening Flow Chart

(Working Proposal)

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Approach to Defining the Public Trust Review Area (PTRA)



How Sensitive is the Resource?

How Much Stress is Acting on the Resource?

Public Trust Review Area Matrix

(Informs areas included in the Public Trust Review Area)

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	Low SFD (0 – 10%)	Medium SFD (10 – 20%)	High SFD (>20%)
Low Habitat Value (non-navigable waters not included below)	Low Risk Area Not included in PTR	Low Risk Area Not included in PTR	Low Risk Area Not included in PTR
Moderate Habitat Value (Steelhead streams)	Low Risk Area Not included in PTR	Moderate Risk Area Stream buffers included in PTR	High Risk Area Sub-watershed
High Habitat Value (Coho summer rearing)	Moderate Risk Area Stream buffers included in PTR	High Risk Area Sub-watershed included in PTR	High Risk Area Sub-watershed included in PTR

Low Habitat Value means stream reaches that are non-navigable and do not provide habitat for salmonids

Moderate Habitat Value means stream reaches identified by NMFS as critical habitat for Steelhead

High Habitat Value means stream reaches identified by CDFW or NMFS as existing summer rearing habitat for Coho

Stream Flow Depletion (SFD) means reduction in flow relative natural flow conditions during the dry season (July – Sept, estimated from from best available information and models

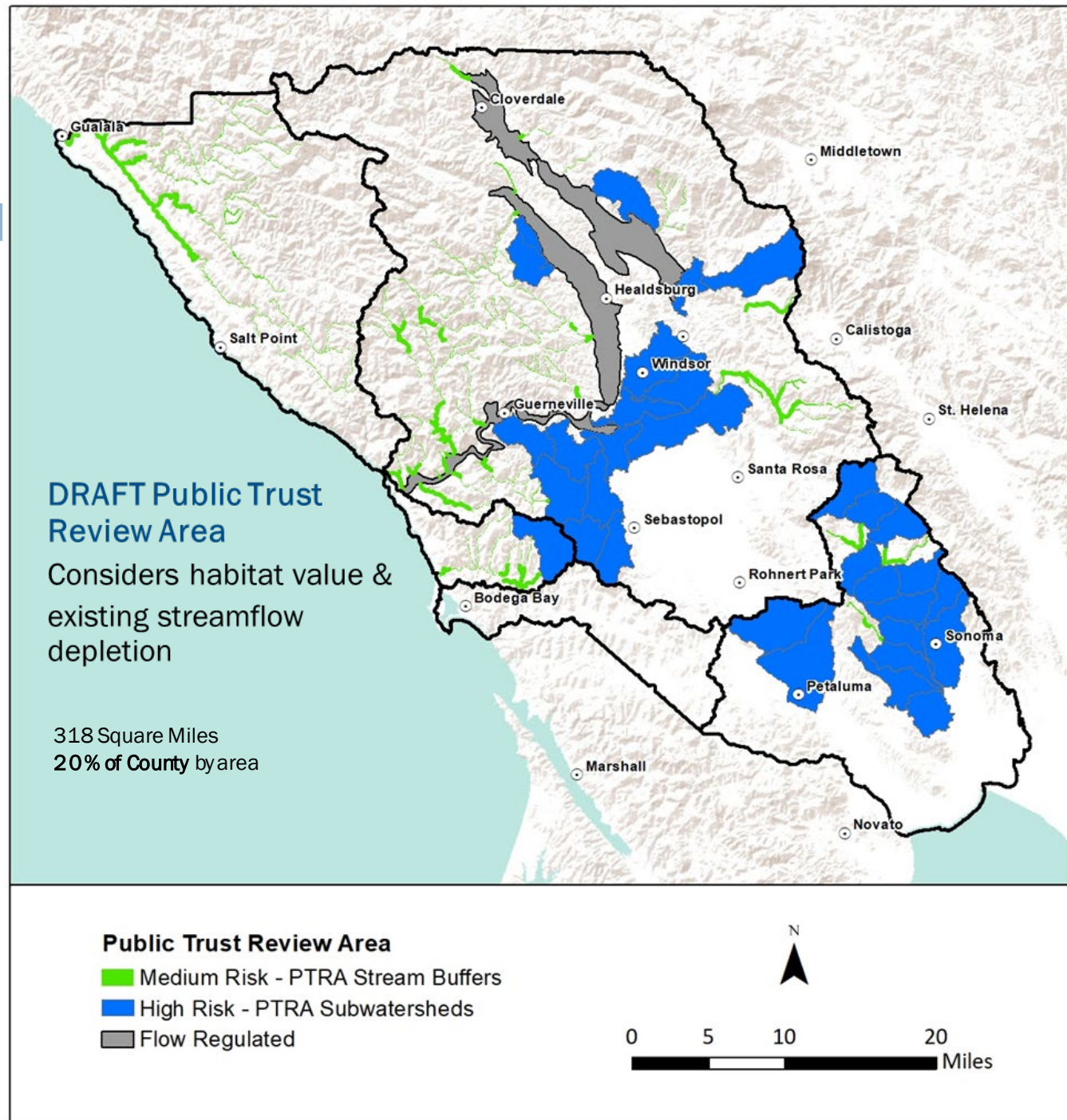
Low / medium / high SFD from Richter, Davis, M. M., Apse, C., & Konrad, C. (2012). A PRESUMPTIVE STANDARD FOR ENVIRONMENTAL FLOW PROTECTION. River Research and Applications, 28(8), 1312–1321. <https://doi.org/10.1002/rra.1511>

Stream Buffers: Under discussion with Technical Working Group

Public Trust Review Area (Working Proposal)

Explore using [Well Ordinance GIS Viewer](#)

Email for link to download layers:
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Water Conservation and Monitoring – Working Proposal

Category	Level 1	Level 2
Indoor Water Use	<ul style="list-style-type: none"> • Efficient faucets and showerheads • Leak and Water Conservation Audit 	<ul style="list-style-type: none"> • Efficient toilets
Outdoor Water Use	<ul style="list-style-type: none"> • Prohibit non-functional turf • Leak and Water Conservation Audit 	<ul style="list-style-type: none"> • Water Efficient Landscape Regulations. Existing landscapes with less than 600 square feet of irrigated turf are exempt. • Disconnected downspouts from all new or existing structure.
GSA Basins	<ul style="list-style-type: none"> • Compliance with applicable water conservation requirements adopted by Groundwater Sustainability Agency 	
Commercial and Industrial Sites		<ul style="list-style-type: none"> • Water Conservation Plan. Includes: Facility water budget, water conservation practices, water efficient appliances and features (e.g. high pressure sprayers), process water reuse, employee training, etc.
Agriculture		<ul style="list-style-type: none"> • Agricultural Water Conservation Practices Plan (Farm Plan). Includes: Use of drip or micro sprayers, monitoring of soil moisture and shoot tips, irrigation scheduling, irrigation system maintenance, etc. • Vineyard and Orchard irrigation limits (excludes frost protection) 0.6 AFY per acre, or existing use supported by data or study • Frost protection, enrollment in frost protection program or frost protection plan
Well Metering and Monitoring	<ul style="list-style-type: none"> • Totalizing water meter installation • Water meter reporting (low water use residential wells exempt) 	<ul style="list-style-type: none"> • Water Level Reporting for parcels using greater than 5 AFY • Annual reporting of implementation of water conservation practices for agricultural, commercial, and industrial (low water use parcels exempt)

Ministerial Well Classifications – Working Proposal

Ministerial Well Classifications	Conservation and Monitoring Requirements
Water wells located outside the Public Trust Review Area	Level 1 Requirements
<p>Public Water Well, inside Public Trust Review Area A public water well for which environmental review under the California Environmental Quality Act is complete.</p>	None
<p>Water Board Regulated Well, inside Public Trust Review Area Water wells, for any land use, that will serve as a point of diversion associated with an appropriative water right regulated by the CA State Water Resources Control Board, Division of Water Rights</p>	Level 1 Requirements
<p>Replacement Low Water Use Well, inside Public Trust Review Area Replacement wells, for any land use, where total groundwater use of the parcel is limited to 2.0 acre feet per year. New well must be no closer to any nearby stream than the well being replaced.</p>	Level 1 Requirements / Options
<p>Low Water Use Well, inside Public Trust Review Area Water wells, for any land use, where total groundwater use of the parcel is limited to 2.0-acre feet per year</p>	Level 1 + 2 Requirements
<p>Well for Existing Land Use, inside Public Trust Review Area Water wells, for any land use, where total groundwater use of the parcel is limited to and does not exceed the amount of groundwater used as of the date of ordinance adoption for legally established land uses. Existing use will be based off average use from a 3 to 5 year period.</p>	Level 1 + 2 Requirements
<p>Zero Net Use Well, inside Public Trust Review Area Water well, for any land use, where the proposed use would not result in a net increase in groundwater use on site through implementation of water conservation measures, rainwater catchment or recycled water reuse system, water recharge project, local groundwater management project, or participation in a streamflow augmentation project authorized by the California Department of Fish and Wildlife or National Marine Fisheries Service. Adapted from Cannabis Ordinance</p>	Level 1 + 2 Requirements

Low Water Use Classification Options

Classification Option	Description	Conservation	Monitoring
Option 1	Replacement Low Water Use Well Groundwater use of the parcel less than 2.0-acre feet per year . New well must be no closer to any nearby stream than the well being replaced.	Option 1a: Level 1 Option 1b: no requirements	<ul style="list-style-type: none"> • Meter installation and reporting • No water use reporting for residential wells
Option 1	Low Water Use Well Groundwater use of the parcel less than 2.0-acre feet per year	Level 1 + 2	<ul style="list-style-type: none"> • Meter installation and reporting • No water use reporting for residential wells
Option 2	Low Water Use Well (including new and replacement wells) - Groundwater use of the parcel less than 0.5 acre feet per year .	Option 2a: Level 1 Option 2b: Level 1, replacement wells exempt	<ul style="list-style-type: none"> • Meter installation and reporting • No water use reporting for residential wells
Option 2	Moderate Water Use Well (including new and replacement wells) - Groundwater use of the parcel between 0.5 and 2.0-acre feet per year	Level 1 + 2	<ul style="list-style-type: none"> • Meter installation and reporting

Metering and Monitoring – Working Proposal

Meter Installation - \$300 - \$1000 per meter

Reporting program costs

- \$150 - \$450 per year

Level 1	Level 2	Notes
Totalizing Water Meter Installation		Meter on each service connection required (service connection is separate parcel served)
Water Meter Reporting		Monthly data collected, reported annually. (Reporting requirements vary by class)
	Water Level Monitoring	Monthly data collected, reported annually Parcels using less than 5 AFY are exempt.
	Conservation Practices Reporting for Agricultural, Commercial, and Industrial sites	Annual reporting of implementation of agricultural, commercial, and industrial water conservation practices <ol style="list-style-type: none"> 1. Through enrollment in agricultural conservation program 2. Through self reporting form submitted with water meter readings Parcels using less than 5 AFY be exempt