

**Regulatory Feasibility** 

Easy and quick. Based on the information that Dew Point Manufacturing provided this appears to be feasible.

Political Feasibility
Acceptable now.
On a small scale this would be acceptable.
Regional Water Benefits
Across county.
Possibly, if widely implemented
Local Economy
Slight positive or no effect.
Depends on application of technology
Energy
Would be on a small scale and located at demand users sites; based on the information that DEW Point Manufacturing provided
Marine Ecosystem Health
Does not harm
Presnwater and Riparian Health
Terrestrial Resources
N/A
Environmental Profile
The environmental profile of this portfolio is acceptable without mitigation.
Groundwater Resources
Does not affect.
May help alleviate groundwater withdrawal if applied on a large scale or at sites dependent on groundwater.
Infrastructure Resilience
Most challenges well.
Assumes located at point user demand site; based on the information that DEW Point Manufacturing provided
Supply Reliability
Makes system significantly more reliable.
Assumes that these units would be widely used
<u>Scalability</u>
Can scale up.
Could be implemented on few to many sites
Preserves Future Choices
Increases choice
Yield
300 MG
Operational Flexibility
Greatly increases
Addresses Peak Season Demand
Maybe.
Still generally dependent on weather.
Implementability
Could be implemented with some challenges
<u>Supply Diversity</u>
Portiono greatly increases the diversity of Santa Cruz's supply portfolio
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sustainability
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Issues to Perceive
ISSUES LU RESUIVE
iveed more decails on the product and applications in which this technology has been used; potential regulations



EVALUATION
Technical Feasibility
Widely used
Legal Feasibility
Can probably acquire.
Actions to perfect water rights; potentially adjust diversion based upon HCP and revised, higher bypass need to be addressed
Regulatory Feasibility
Slow but relatively sure
Political Feasibility
Acceptable now
Regional Water Benefits
3 jurisdictions
Local Economy
Positive local job
Energy
4
Marine Ecosystem Health
Cumulative harm.
Increased GHGs, thus site selection is crucial; salmonoid population
Freshwater and Riparian Health
About as it is now.
Terrestrial Resources
N/A
Environmental Profile
The environmental profile of this portfolio is acceptable with appropriate and effective mitigation

Groundwater Resources
Depletes resources.
Possibly depletes; depends on future of water source availability
Infrastructure Resilience
Meets most challenges well.
New infrastructure with current seismic/building codes
Supply Reliability
Somewhat more reliable
Scalability
Can scale up
Preserves Future Choices
Increases choice
Yield
560 MG
Operational Flexibility
Greatly increases
Addresses Peak Season Demand
No
Implementability
Could be implemented with some challenges
Supply Diversity
Somewhat increases the diversity of Santa Cruz's supply portfolio
Sustainability
This portfolio is somewhat sustainable
Issues to Resolve
Right-sizing for new WTP; water rights issues; available flows versus any new fish bypass requirements; possible need for new pipelines for
potable water and for excess water used for groundwater recharge. Possibility of using new MF WTP to replace GHWTP; possibility of using extra
water for groundwater recharge if the City can resolve legal issues associated with water rights and reach agreement with other local agencies,
e.g. SVWD and/or SqCWD.



City of Santa Cruz Water Supply Advisory Committee
Solutions Phase – Lechnical Summary
Lonsolidated Alternative 19 -Kanney Collectors
res, but some ambiguities
Regulatory Feasibility
Slow but relatively sure
Political Feasibility
Acceptable in 5 years
Regional Water Benefits
Across County
Local Economy
Positive local job
Energy
4
Marine Ecosystem Health
Cumulative harm
Freshwater and Riparian Health
Degraded ecosystem health.
Potential increased diversion and related adverse impacts on fishery.
Terrestrial Resources
N/A
Environmental Profile
The environmental profile of this portfolio is acceptable with appropriate and effective mitigation
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Groundwater resources
Actively resources
Intrastructure Resultence
Wany moderately wen
Currely Dellebiller
Supply Relability
Makes system significantly more renable
Scalability
Can scale up
Preserves Future Choices
Increases choice
Yield
560 MG
Operational Flexibility
Greatly increases
Addresses Peak Season Demand
Yes
Implementability
Could be implemented
Supply Diversity
Partfolio significantly increases the diversity of Santa Cruz's supply portfolio
Sustainability
This portfolio is somewhat sustainable
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Issues to Besolve
ISSUES to resulty
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produced by the namey collectors, after treatment, for groundwater recharge.