



# Utility Advisory Committee Meeting

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**September 15, 2021 at 5:30**

**TO PARTICIPATE:** On your computer  
via Microphone or type your public comment into the  
Q & A Tab.

On your phone  
call (929) 205-6099 or (301) 715-8592  
Meeting ID: 114-611-628 and  
Press \*9 to raise your hand via phone.

Please note if you are on your computer but do not have a microphone, you will have to call in to speak, or write your public comment in the Q&A Tab.

# Agenda Item 1:

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Call to Order  
Roll Call



# Agenda Item 2:

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Approve UAC Meeting  
Minutes of  
July 21, 2021



# Agenda Item 3:

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## Basin Management Committee Updates



# Agenda 3:

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## **Sustainable Yieldx Methodology:**

As specified in the Basin Plan, the Sustainable Yieldx equals the maximum amount of groundwater that may be extracted from the Basin in Year X without causing seawater to advance further inland and with no active well producing water with chloride concentrations above 250 mg/L. The amount of water that can be extracted is determined using the numeric groundwater model (Model) created for the Los Osos Basin.



# Agenda 3:

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These key assumptions of Sustainable Yieldx, are described below:

**Precipitation** – Precipitation in the model is assumed to be 17.5 inches per year. This average is based on US EPA Climate Resilience Evaluation and a base period of 1981-2010 for which the Morro Bay Fire Station rain gauge average rainfall was 17.48 inches per year.

**Stream Inflow** – Stream Inflow in the model is limited at 800 AFY and is constrained by stream bed seepage capacity to be approximately 20% of the estimated average watershed runoff.

**Recycled Water** – Recycled water delivery assumptions included in the model include 448 AFY to Broderson and 33 AFY to Bayridge Estates.



# Agenda 3:

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**Non-Purveyor Pumping** – Non-Purveyor pumping assumptions are in the attachment to the report.

**Purveyor Pumping** – The amount of purveyor pumping included in the Sustainable Yieldx calculation is iteratively determined by increasing purveyor well pumping until the 250 mg/L Chloride concentration limit at an active pumping well constraint is reached. Pumping rates for individual purveyor wells are optimized, based on available infrastructure, to shift purveyor pumping from the lower aquifer to eastern portions of the Basin and/or to the upper aquifer.

**Sea Level** – Sea level in the model is assumed to be 0 ft elevation in National Geodetic Vertical Datum of 1929 (NGVD 29) which is roughly equivalent to Mean Sea Level for the Port San Luis buoy of 2.72 ft in North America Vertical Datum of 1988 (NAVD 88).



# Agenda Item 3: Basin Management Committee Updates

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## Questions





# Agenda Item 4:

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LO Basin Plan Implementation  
Summary, and  
SLO County Regional Water  
Infrastructure Resiliency Plan



# Agenda 4:

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## *Background*

The Los Osos Groundwater Basin is the sole source of water for residential, commercial, institutional and agricultural properties overlying the Basin.



# Agenda 4:

## Basin Plan Implementation Summary

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### ***Immediate Goals***

1. Halt or, to the extent possible, reverse seawater intrusion into the Basin.
2. Provide sustainable water supplies for existing residential, commercial, community and agricultural development overlying the Basin.
3. Set water conservation goals and establish mandatory standards and policies that promote water use efficiency and innovation for residential, commercial and institutional water users for both indoor and outdoor usage.



# Agenda 4:

## Basin Plan Implementation Summary

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### Continuing Goals

- . Provide for a continuously updated hydrologic assessment of the Basin
- . Create a water resource accounting which is able to meet the information needs for planning
- . Establish a strategy for maximizing the reasonable and beneficial use of Basin water resources
- . Provide sustainable water supplies for future development within Los Osos
- . Set water conservation goals and establish strategies to promote water use efficiency
- . Clarify the assignment of risk arising from future changes in the availability of groundwater for extraction
- . Allocate costs equitably among all who benefit from the Basin's water resources
- . Protect water quality in the Basin
- . Protect environmentally sensitive areas within the Basin or influenced by Basin hydrology.
- . Develop strategies to maximize grant and other funding and financing opportunities for ongoing Basin Plan implementation



# Agenda 4: Basin Plan Implementation Summary

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## ***Basin Plan Programs***

- Urban Water Use Efficiency
- Programs A-B-C-D
- Water Reinvestment Program
- Supplemental Water



# Agenda 4: Summary of the Basin Plan Implementation

<b>Metric</b>	<b>Basin Plan Goal</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Basin Yield</b>	80 or less	89	78	75	74	69	73
<b>Water Level</b>	8 ft. above sea level mean	0.6	1.0	1.5	2.0	1.8	1.8
<b>Chloride</b>	100 mg/L or lower	188	225	132	145	162	205
<b>Nitrate</b>	10 mg/L or lower	25.4	26	32	24	22	20



# Agenda 4:

## Basin Plan Implementation Summary

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### ***Groundwater Basin Sustainability Concerns***

- Six years of data show mixed results
- Could take several more years to determine success
- All 3 water purveyors have concerns regarding the sustainability of the Basin
- There is agreement that there is a need to consider other water supply alternatives and have a “Plan B”



# Agenda 4:

## Regional Water Infrastructure Resiliency Plan Summary

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- Plan developed by the SLO County Flood Control and Water Conservation District based on improving regional water supply reliability and resilience
- Countywide Water Action Team formed made up of key water agency staff to develop an approach to move forward





# Agenda 4:

## Regional Water Infrastructure Resiliency Plan Summary

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### ***Areas of focus***

- Infrastructure interties and Agreements
- Countywide Water Emergency Planning
- Salinas Dam Ownership and Expansion
- Regional Desalination Project(s)



# Agenda 4:

## Regional Water Infrastructure Resiliency Plan Summary

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### ***Vulnerabilities Assessment***

- Supply/Demand Assessment
- Drought Risk Assessment
- Supply Source Risk Assessment
- Resiliency Score
- Resiliency Risk Mitigation Opportunities Evaluation



# Agenda 4: Regional Water Infrastructure Resiliency Plan Summary



# Agenda 4: Regional Water Infrastructure Resiliency Plan Summary

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## ***Plan Results***

Los Osos ranked number 9 overall on the resiliency risk rankings (out of 41 agencies) and in the top 5 for the highest risk because of our single water supply source.



# Agenda 4: Summary

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- The Basin Plan could take years to realize and there are no guarantees that each program will achieve the expected result.
- RWIRP provides a useful snapshot into what is needed by communities to become water supply resilient.
- A Plan B is needed and is why staff recommended that the Board provide direction to seek opportunities to diversify the District's water portfolio including an inter-connection to the regional water system.



# Agenda 4: Summary

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With the uncertain impacts of Climate Change looming, the water supply decisions we make today will impact the quality of life for both our current population and future generations to come.



# Agenda Item 4: SLO County Regional Water Infrastructure Resiliency Plan

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## Questions



# Agenda Item 5:

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## Utility Department Report





# Agenda Item 5:

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## Water Production:

- 15.0 million gallons - average daily demand 484,500 gallons
- Decrease of approximately 8.8% over last year
- Per capita water use decreased from 73.4 gpcd in August 2020 to 64.8 gpcd in August 2021.



# Production & Runtime Hours by Well Site

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## Production:

<b>Production (MG) August</b>	<b>2021</b>	<b>2020</b>
Palisades	1.5048	5.5400
3 <sup>rd</sup> Street/Bayside	2.8787	0.0000
8 <sup>th</sup> Street/El Moro	1.4497	8.2100
10 <sup>th</sup> Street	4.8207	0.0000
South Bay (lower)	4.2172	2.1900
South Bay (upper)	0.1470	0.5300
<b>TOTAL</b>	<b>15.0181</b>	<b>16.4700</b>



# Production & Runtime Hours by Well Site

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## Runtime:

Runtime (hrs.) August	2021	2020
Palisades	72.4	275.7
3 <sup>rd</sup> Street/Bayside	708.0	0.2
8 <sup>th</sup> Street/El Moro	80.4	463.2
10 <sup>th</sup> Street	408.7	0.0
South Bay (lower)	698.7	736.2
South Bay (upper)	64.9	313.4
<b>TOTAL</b>	<b>2033.1</b>	<b>1788.7</b>



# Water Billing Information

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Fifty-seven percent of the service area received bills for approximately **17.0 MG** consumption for the period of June 11, 2021 through August 10, 2021. This generated approximately **\$298,796.24** in revenue.



# Rainfall – Water Year April through March

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<b>Water Year</b>	<b>Total</b>
2021-2022	0.04
2020-2021	13.52
2019-2020	13.23
2018-2019	23.09
2017 - 2018	13.62
2016 - 2017	26.01
2015 - 2016	16.74
2014 - 2015	7.61
2013 - 2014	6.59



# Utilities Department Report

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## Questions

# Agenda Item 6:

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## Utility Department Updates



# Agenda Item 6: Utility Department Updates

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## Program C Well

- At the August 5<sup>th</sup> meeting, the Board of Directors approved the Initial Study and Mitigated Negative Declaration.
- Staff is continuing to work on the scope of work for the drilling phase of the project and the Minor Use Permit application with the County.
- Staff is working on submitting a grant application to the State to help fund the cost of the project.





# Agenda Item 6: Utility Department Updates

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## 8th Street Upper Aquifer Well

- The project was awarded to Hartzell General Engineering Contractor; bid price \$207,300.
- Kickoff meeting held on September 1<sup>st</sup>.
- It is anticipated that construction will start in October.



# Agenda Item 6: Utility Department Updates

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## 16<sup>th</sup> Street South Tank Project

- The Board authorized the formal bid process and a project budget of \$446,735 at their September 9<sup>th</sup> meeting.
- Bids are due October 14, 2021.



# Utility Department Updates

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## Questions




# Agenda Item 7:

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## Public Comment For Items Not On The Agenda

To Speak:

Raise your Hand by clicking  on your computer  
Or Press \*9 to raise your hand via phone.



# Agenda Item 8:

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Schedule Next UAC Meeting

October 20, 2021

at 5:30pm



# Agenda Item 9:

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## Closing Comments by UAC Committee Members



# Agenda Item 10:

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## Adjournment

