



TRIUNFO SANITATION DISTRICT

A PUBLIC AGENCY

April 21, 2011

Board of Directors
Triunfo Sanitation District
Ventura County, California

RECYCLED WATER COMMITTEE

Summary

The Triunfo Sanitation District (Triunfo) Board appointed Directors James Wall and Janna Orkney to serve on the newly formed Recycled Water Committee. The committee met on April 15th, 2011 and discussed a range of issues facing the District relative its involvement in the delivery of recycled water.

Two immediate priorities identified by the committee relate to the supply and price setting factors unique to Triunfo. The priorities identified are: 1) Develop a position relative the Las Virgenes – Triunfo Joint Powers Authority wholesale recycled water rate for FY12; and 2) Initiate dialog with Calleguas Municipal Water District

Background

The relationships and cost drivers affecting recycled water purchase are summarized in the following table.

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>
JPA rate:	\$ 323.70	\$ 241.04	\$ 213.14	\$ 289.62	\$ 289.62	\$ 285.00
TSD Rate to CMWD(1)	\$ 339.89	\$ 253.09	\$ 223.80	\$ 304.10	\$ 304.10	\$ 299.25
CMWD Rate to TSD	\$ 478.00	\$ 526.00	\$ 526.00	\$ 615.00	\$ 750.00	\$ 785.00
CMWD / TSD Spread	\$ 138.12	\$ 272.91	\$ 302.20	\$ 310.90	\$ 445.90	\$ 485.75
% increase from previous year:		98%	11%	3%	43%	9%

(1) Includes 5% markup from TSD.

Financial Impact

There is no fiscal impact anticipate from the recommended action at this time.


Item 7-1

Recommendation

It is recommended that Board:

- 1) Receive a verbal report from the Recycled Water Committee;
- 2) Make a recommendation regarding JPA developed wholesale recycled water rate for FY12; and
- 3) Authorize the Recycled Water Committee to initiate a meeting with a subcommittee of the Calleguas Municipal Water District to discuss recycled water rates.

APPROVED FOR APRIL 25, 2011 AGENDA



Doug Anders – Acting District Manager



JPA Workshop

July 7, 2008

7/7/2008

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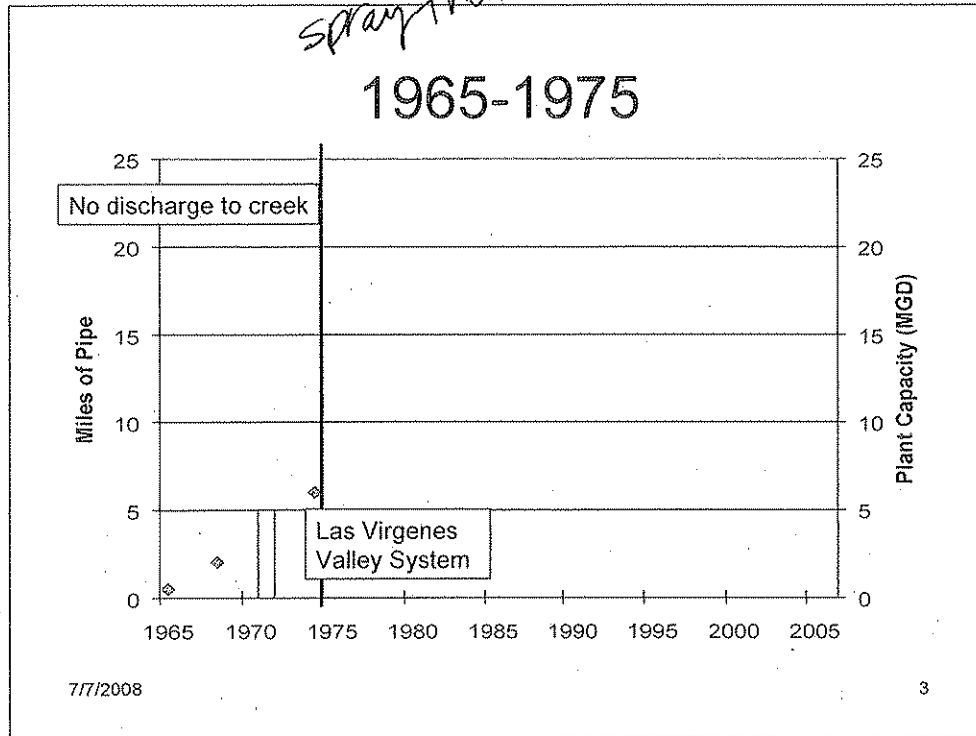
- Purpose
 - Understand historical perspective of recycling
 - Review revenue structure
 - Discuss future trends
 - Receive board comments

7/7/2008

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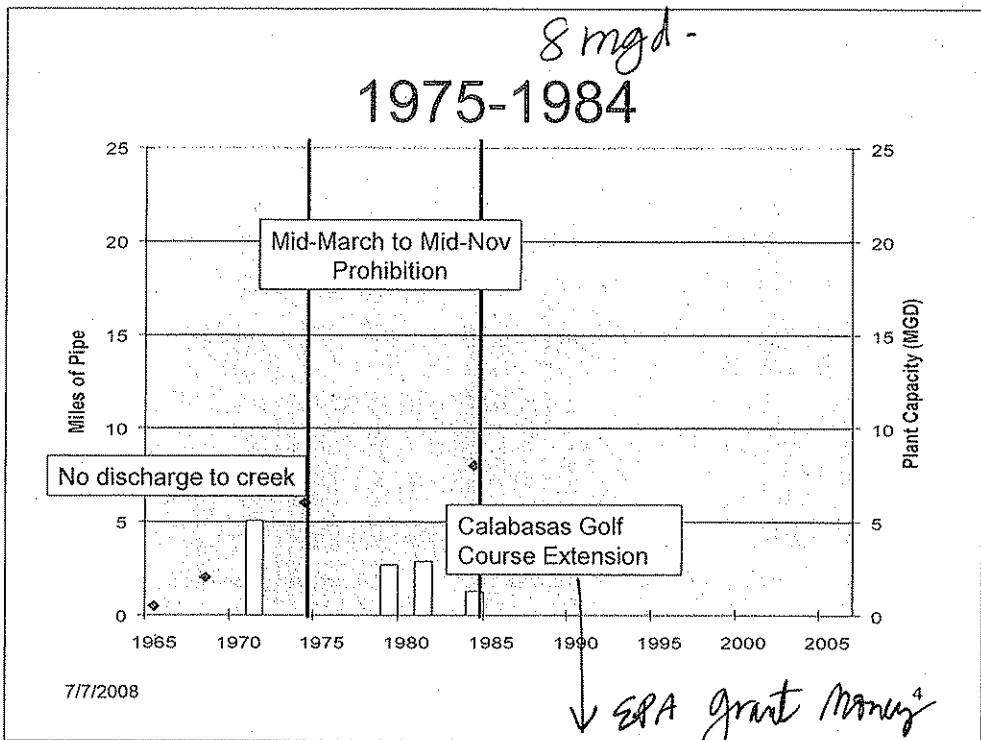
17-4

spray fields - Res II -
6 mgd, prob to Lospray fields



17-5

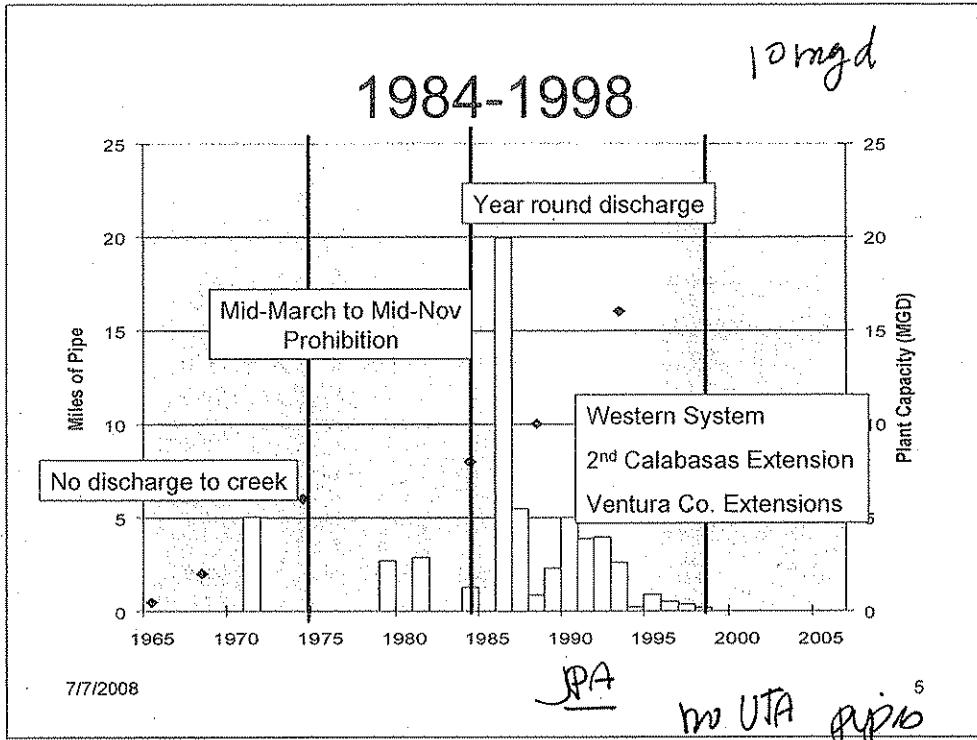
8 mgd -
1975-1984



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↓ EPA grant money

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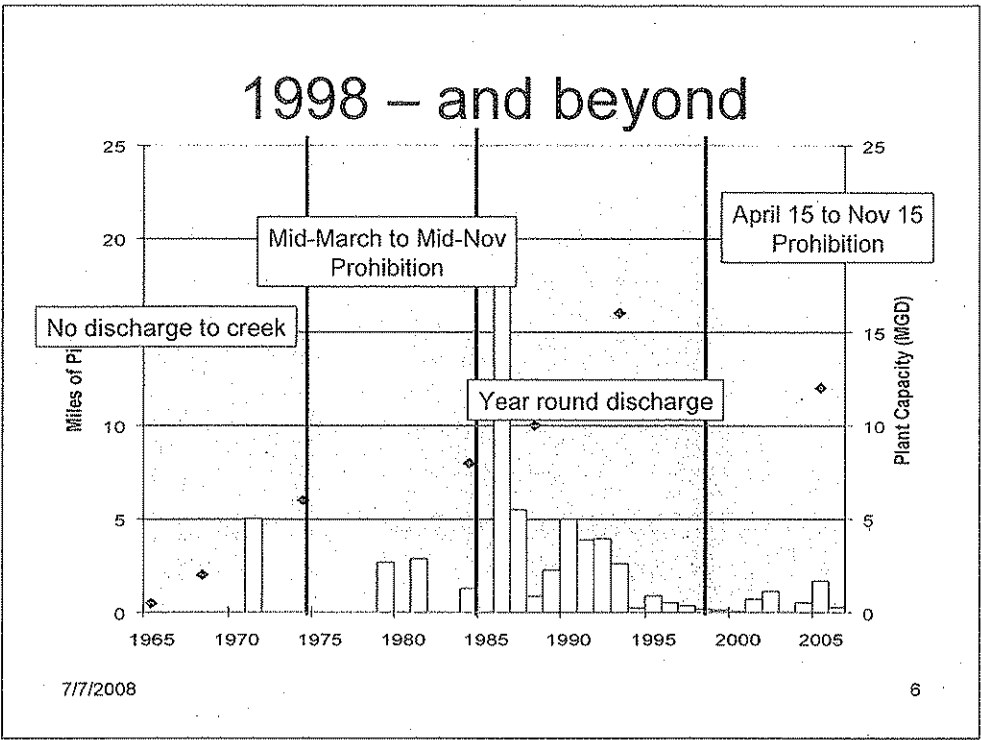


JPA

no UTA pipe⁵
 backbone system -
 MWD - local resources
 Ventura tanks

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1998 – and beyond



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17-8

Creek Avoidance Compliance Capacity of Disposal Options

Disposal Options	(MGD)
005 to LA River	6.00
Sewer diversion to City of LA	0.85
Farm	0.34
King Gillette	0.00
Westlake Golf Course	0.26
Incentive Program	0.90
TOTALS	8.35

*\$3 mill. stricker
- via pump capacity*

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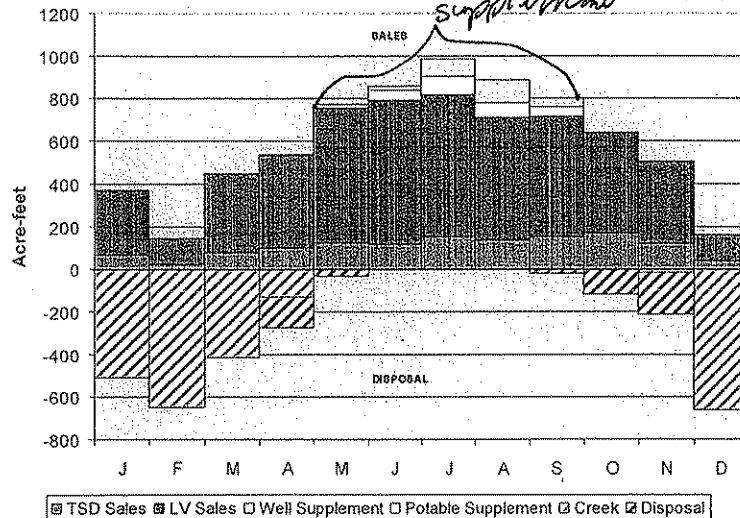
*million / yr since 1998 -
9000
\$3 mill*

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2007 Sales & Disposal

Dry year

supplement 580 AFT 8% of sale



7/7/2008 *1200 AFT*

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- Purpose

- Review revenue structure

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Revenue Structure

14. Income

a. The proceeds from the sale by the Authority or a commodity, including, but not limited to, compost/sludge, recycled water, or agricultural products, shall be credited to each party based upon the party's capacity rights in the facility or facilities producing the commodity.

70.6%

29.4%

Revenue Structure

Other Income, compost sales & cell sites
70.6% / 29.4%

Revenue
LRP, 700 AF \$154/AF
70.6% / 29.4%

money from MWP

TSD Retail Sales
1,926 AF 29.4%

LVMWD Retail Sales
4,626 AF 70.6%

6,552 AF

JPA Sales to TSD & LVMWD
70.6% to LVMWD, 29.4% to TSD



29.4% of Expenses, TSD

70.6% of Expenses, LVMWD

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2008 estimate

Expenses reclaimed water

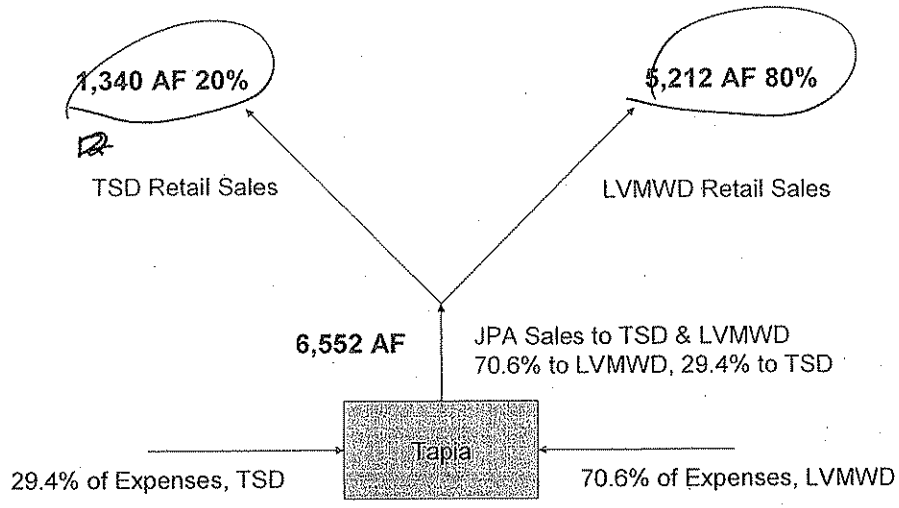
*10,412 AF/yr.
6000 AF to creek -
to 6500 for reclaimed water*

17-13

Revenue Structure

24. **Ownership of Treated Effluent.** The minimum each party is entitled to receive from the Joint System is the amount of treated effluent equivalent to the sewage contribution from its county. If demand for treated effluent exceeds the available supply, costs for supplementing the treated effluent supply with potable water shall be charged to the retail water agency exceeding the party's entitlement. If a party's demand for treated effluent is less than the available supply, either party may use the other party's unused entitlement and pay the appropriate operation and maintenance costs.

Revenue Structure



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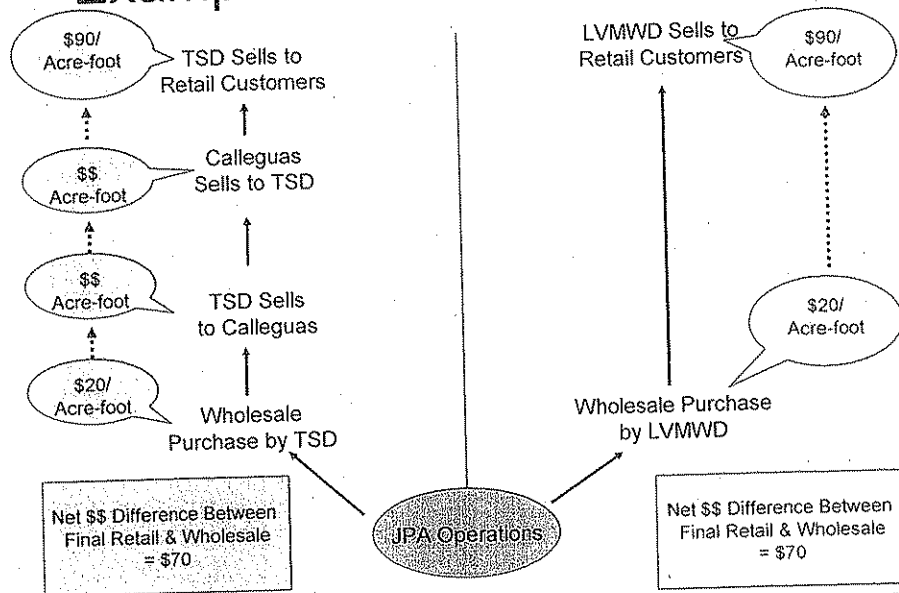
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Revenue Structure

14. Income

- b. The price for the sale of such commodity shall be approved by the Authority. In determining the price, the Authority shall consider such expense as debt service, replacement service, capital recovery, operation and maintenance costs, cost of the commodity production, the cost of supplemental water, and the value of the product.

Example: RW Revenue Stream



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- Purpose

– Discuss future trends

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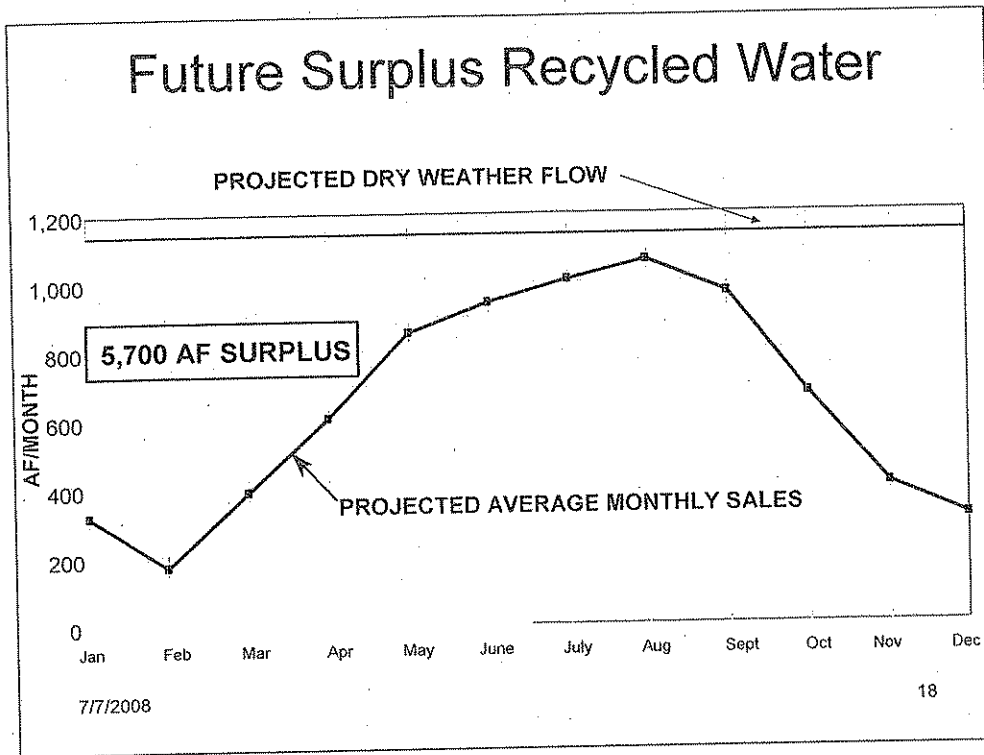
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What would it take to get out of the creek
100% of time for 100% of the flow?

- Annual Flow: 13,500 AF
- Peak Flows: 33 ~ 44 mgd
- Recycled water options require storage
of 4,000 AF

Future Surplus Recycled Water



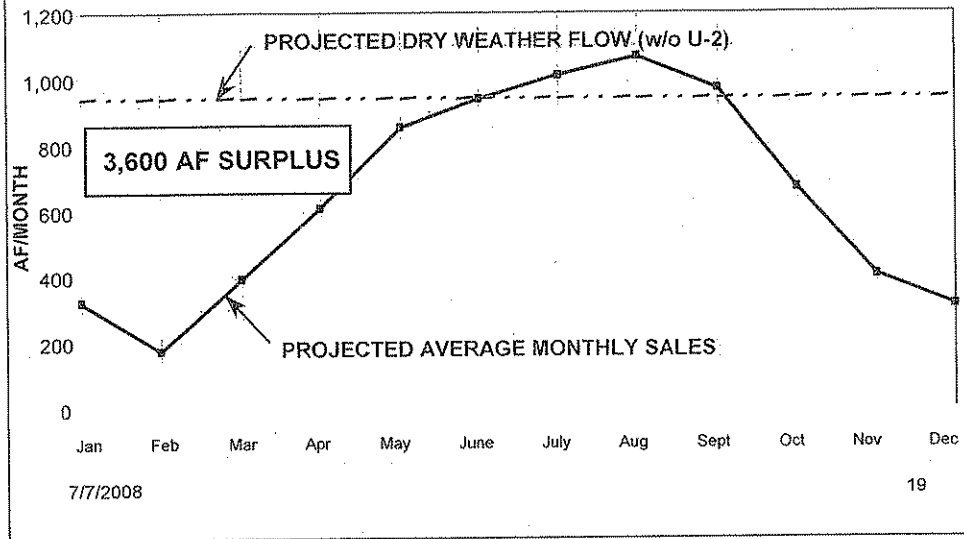
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1125 AF

17-20

Future Surplus Recycled Water With U2 Diversion

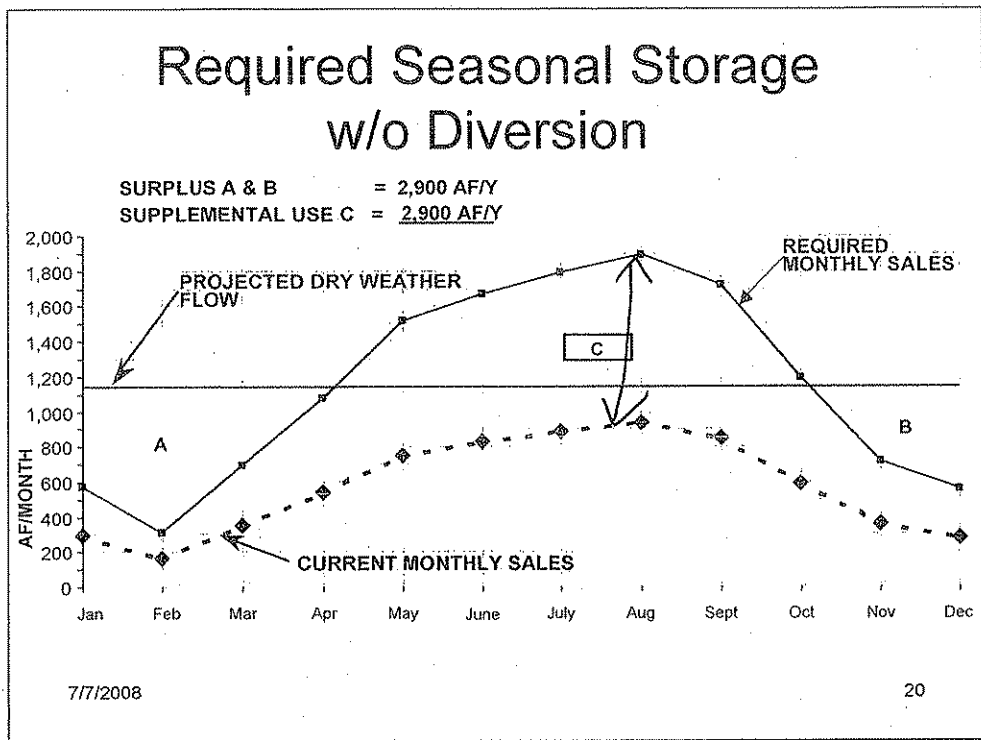
- trip to LA River



\$ 7.5 mill
 SWN line
 Topanga
 Cap rights
 \$ 6 mill
 dollars
 com.

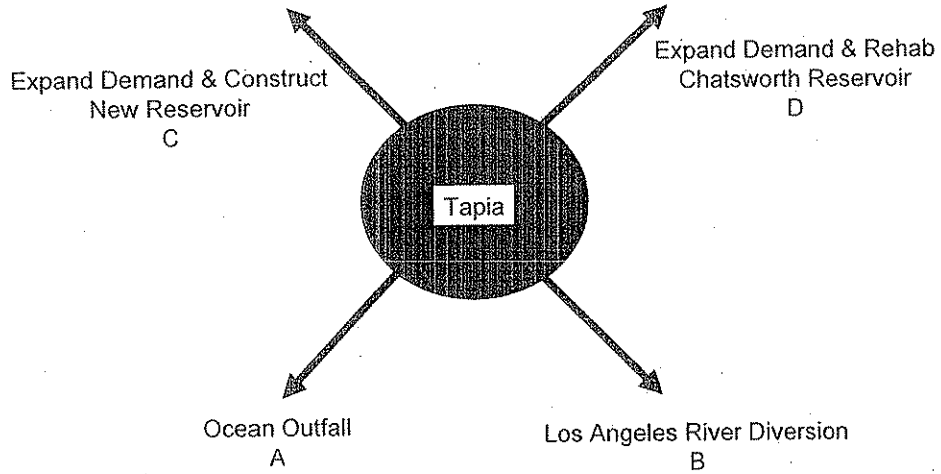
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At 2030 capacity



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What were the results of the TEA study?








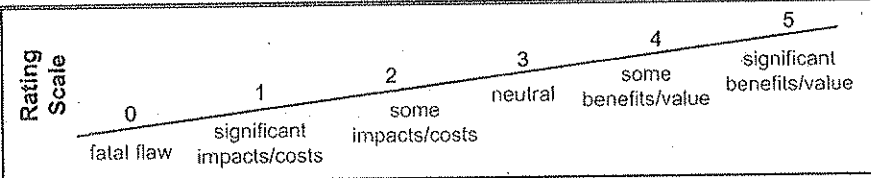
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What were the evaluation criteria?

-  **Operations.** Actions needed to implement and operate; relative ease of construction and operations; short-term permits.
-  **Economics.** Capital, operational and maintenance costs; user charges/rates; amortized annual costs of financing.
-  **Environmental.** Key issues include hydrology, water quality and effects on habitat and biological resources.
-  **Public Considerations.** Potential public reaction including public health and safety, impacts on property values; aesthetic or visual effects.
-  **Sustainability.** Long-term viability and resistance to obsolescence; obtaining permits; potential changes in regulations/agency relationships.



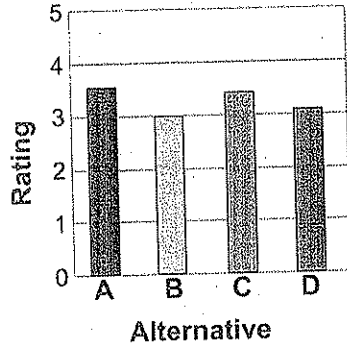
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(mention ASR and Wetlands looked at as part of 150 potential projects; both not feasible due to local geology and topography)

17-24

Composite Ratings



Alternative A
Ocean Outfall

\$55

7772008

Alternative B

65.5

mill

Alternative C
Expand Demand
Construct Reservoir

142

Alternative D
Expand Demand
Refurbish Chatsworth

192 mill

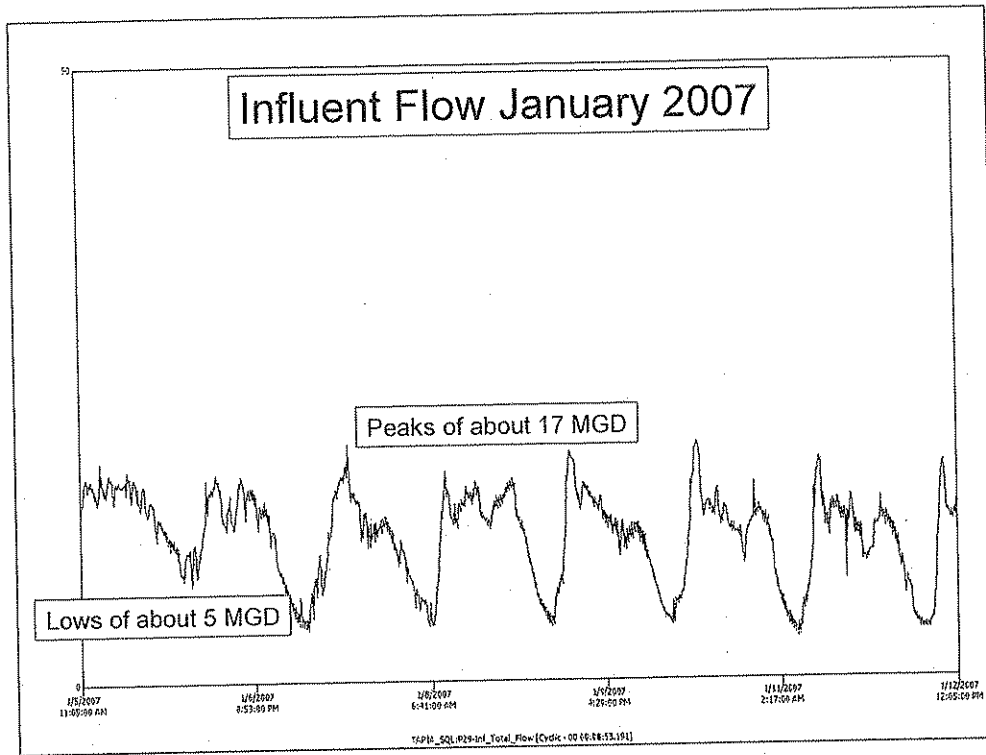
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2005 \$

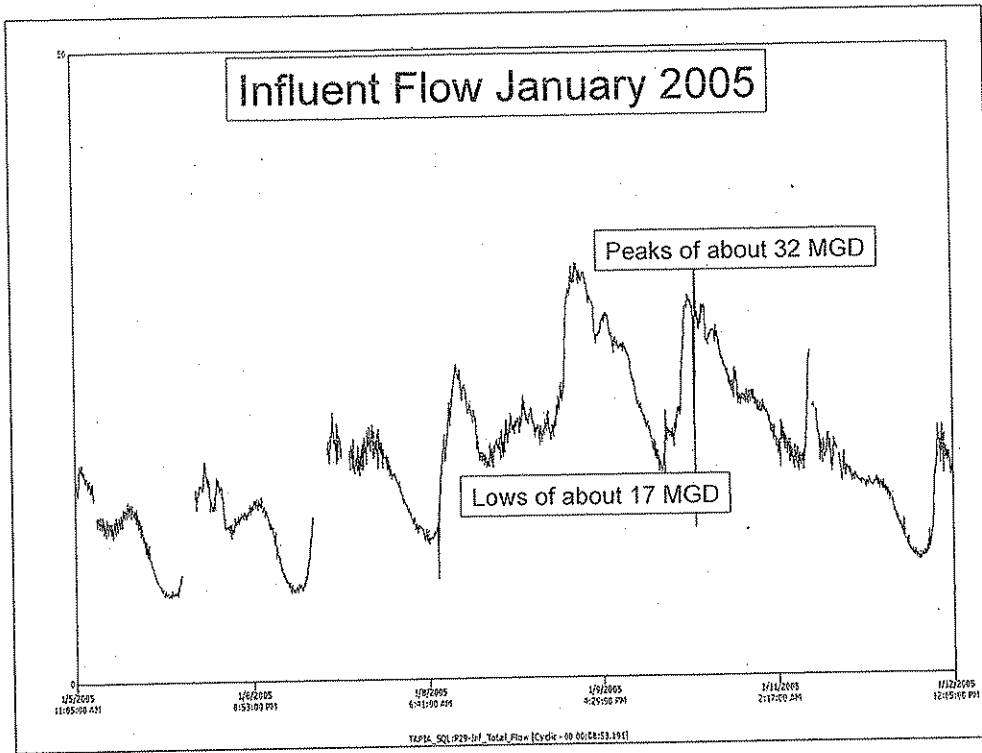
1725

Why Storage & Demand Expansion does not work for 100% of the flow 100% of the time

- Sustainability
- Weather Dependent
- Distance
- Cost
- Peak flows



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The Crystal Ball?

\$ 3.2 mill -

• System expansions coupled with storage?

- Thousand Oaks along TO Blvd - to 250 A FT w/ H school
- Calabasas East Mullholland East small city London
- Decker Canyon Alternative
- Residential LA City Hwy 23 Mal DC 290 AF
- City of LA Cornell Rd W along Mullholland - Media Valle 662 A FT
- Highway 23

\$ 1.7 mill
25 A FT

14.2 mill

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City of Hill Hills
Old Ag
Med Valley

648 A FT
40 mile med.
pipeline

not lost out

\$ 200 / ft.

Who sells to

Calabasas East - old go to W Hills S. Course - town Calabasas

Sunset Hills B.C.
Cal trees.
WIL H.S.

prden 1500 A FT.
\$ 45 mill

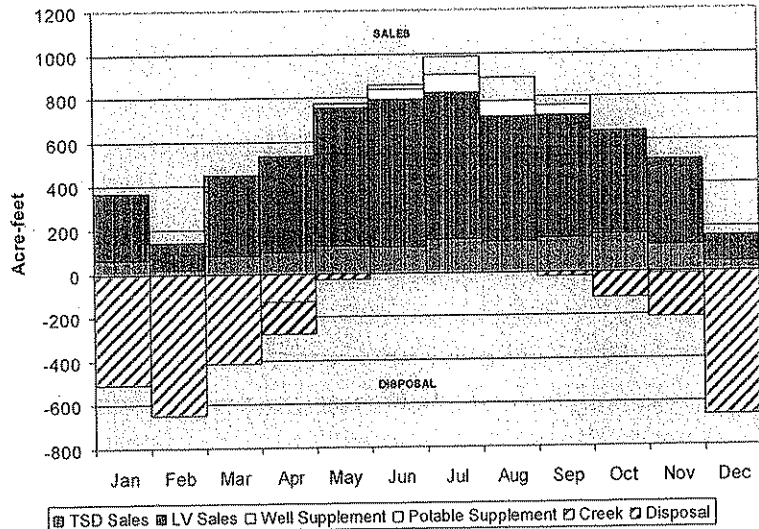
backbone imp -
up over grade
Lend + TO

Santa Rosa

290 A @ Cal Lullbrim

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No Expansions at 2030

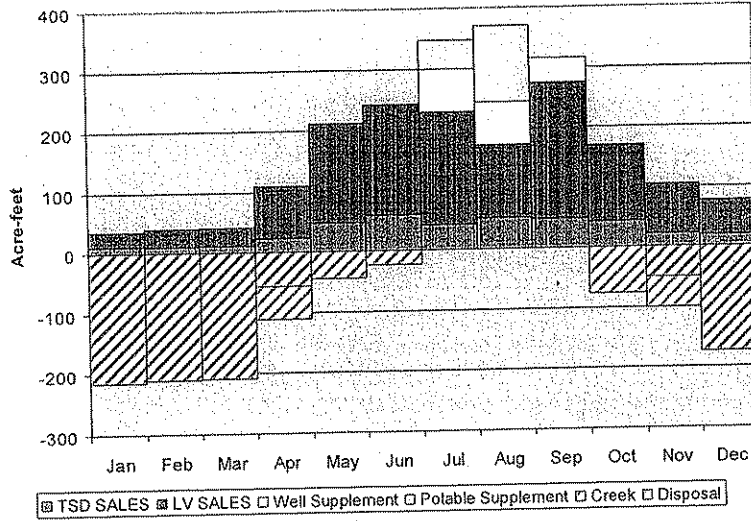


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Year 2030 -With Expansions Additional Sales & Disposal



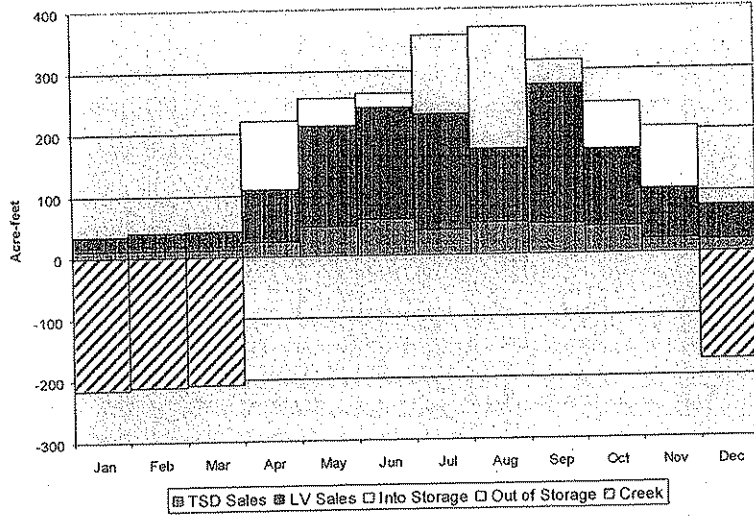
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1100 A Ft

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Year 2030 – With Expansions & Storage Additional Sales



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Benefits of Storage

- Achieves regulatory compliance
- Reliable supply for expansion
- Reduces imported water
- Creates a “local” supply
- Creates recreational & educational opportunities
- Reduces energy consumption and green house gases

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The Crystal Ball?

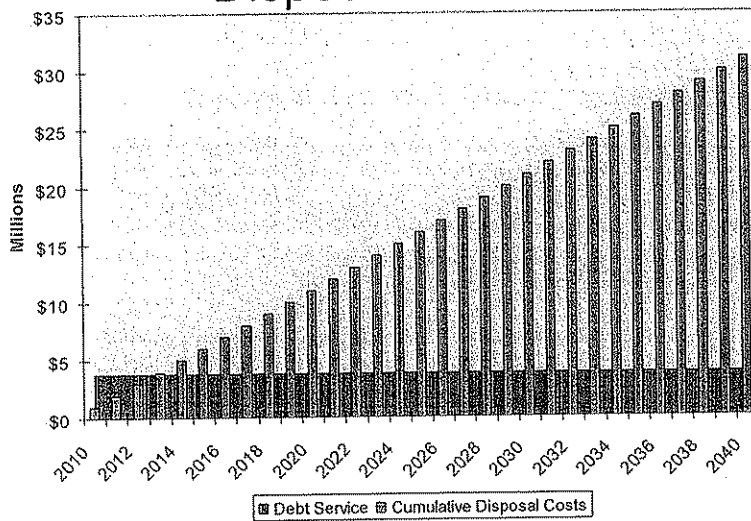
- Increased flows
- Increased recycled water production
- Stricter nutrient TMDL?
- Stricter water quality requirements in the LA River basin?
- Uncertain regulations related to recycled water application?

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Debt Service vs Cumulative Disposal Costs



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What's our vision?

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A. do nothing?

B. where be?

future trends -
strat plan -

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- Purpose

– Receive board comments

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