

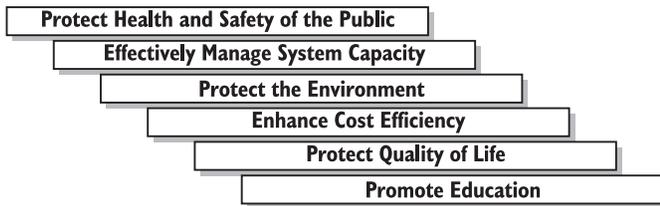


Introduction and Summary of Phase I Activities

In October 1999, the Bureau of Sanitation and the Department of Water and Power became Partners in Planning for 2020. Together, they launched the Integrated Plan for the Wastewater Program (IPWP) as Phase I in its effort to develop a comprehensive Integrated Resources Plan (IRP). Originally initiated as a step toward updating the City's Wastewater Facilities Plan, the Bureau and DWP expanded the IRP objectives to accomplish two basic goals:

- ◆ Enlist the public in the entire process of planning and design of the overall Integrated Resources Planning, and
- ◆ Integrate water supply, water conservation, water recycling, and stormwater management issues with wastewater facilities planning through a regional watershed approach

The first phase of the Integrated Resources Plan utilized input and assistance from an extensive and diverse stakeholder network comprised of citizens, community leaders, interest groups, and key agencies outside the City. During this first phase, stakeholders helped identify key objectives for the IRP and evaluated high-level alternatives for the future. These objectives included:



The stakeholders also developed a set of guiding principles that served as instructions or "guidelines" for developing detailed alternatives that would be analyzed in the second phase of the IRP. These guiding principles included:

- ◆ Build new wastewater facilities upstream in the system
- ◆ Produce and use as much recycled water as possible from existing and planned facilities
- ◆ Reduce the amount of rainfall-dependent inflow and infiltration
- ◆ Increase the level of water conservation
- ◆ Increase the amount of dry weather urban runoff that is diverted and treated or captured and beneficially used
- ◆ Increase the amount of wet weather runoff that can be captured and beneficially used
- ◆ Beneficially reuse biosolids
- ◆ Focus on lower-cost solutions

The Board of Public Works, the Department of Water and Power Board of Commissioners and the City Council concurred with these findings on December 14, 2001. A review of the first phase work effort and the full suite of recommendations by the stakeholders is presented in "Summary of the Steering Group Process and Their Recommendations for Integrated Resources Planning Policy Development" which is available for downloading at www.lacity.org/san.

Summary of Phase II Activities

The Integrated Resources Plan Phase II, which started in June 2002, is well on its way and currently has multiple tracks of activities including public outreach, facilities planning, environmental analysis, and financial planning.

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Public Outreach

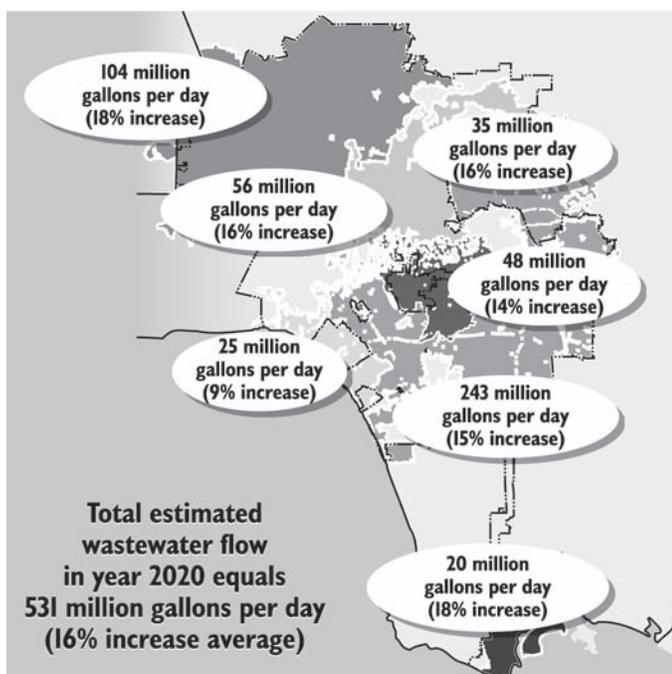
Public participation and stakeholder involvement are continuing in Phase II. Public participation is self-selected and possible at three different levels:

- ◆ **Steering Group:** participates in regularly scheduled workshops and provides on-going input on the technical, environmental and financial development of the project. Also considers key project issues, such as facilities siting, implementation risks, and acceptability of costs that will invariably arise during the project. Currently, 117 individuals are participating in this group representing over 100 organizations.
- ◆ **Advisory Group:** requires a commitment to attend meetings and to provide feedback for the organizations they represent. A total of 65 people representing over 60 organizations are participating in this group.
- ◆ **Information Group:** requires only an expressed interest in being kept informed about this project.

Future Needs or Gaps

A key element to the IRP is understanding the current and potential relationships between the water, wastewater, stormwater (runoff), and recycled water systems. One of the initial steps in Phase II has been to refine the technical data that we have for the Year 2020 — such as the population. The population of Los Angeles is expected to grow by another 700,000 people by the year 2020.

The average wastewater flow is expected to increase by almost 100 million gallons per day (MGD) to 531 MGD by 2020. The figure shows this expected increase in wastewater flow by 2020. The question that we are addressing is how to meet these needs.



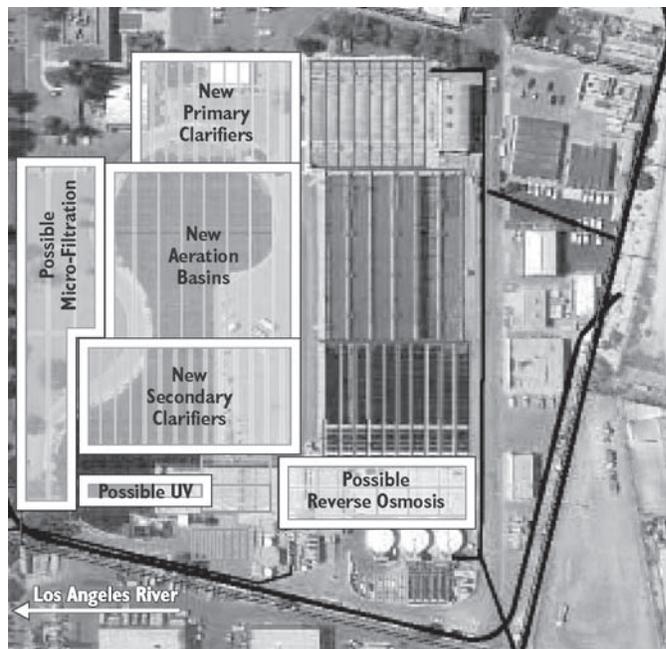
As L.A. grows, this is where wastewater flows will increase

Present Focus of the IRP: Building Alternatives

The present focus of the IRP planning team includes developing options to meet the water, wastewater and runoff drivers, combining these options into single-focus alternatives and then combining these into complete integrated alternatives.

Options to Meet Future Needs

The IRP team has developed a series of wastewater, recycled water and runoff options to meet future needs.



One of the many wastewater options is to expand the Los Angeles-Glendale Water Reclamation Plant

The **wastewater** options considered for the IRP include:

- ◆ Reducing flows (through conservation or infiltration/inflow reduction)
- ◆ Optimizing and/or expanding existing treatment facilities
- ◆ Building new treatment facilities
- ◆ Building storage facilities (both plant and sewer system)
- ◆ Building new sewers
- ◆ Some combination of the above

The **recycled water** options identified for the IRP include:

- ◆ Meeting irrigation and industrial demands using treated wastewater
- ◆ Meeting irrigation and industrial demands using treated runoff
- ◆ Recharging the groundwater basin using treated wastewater



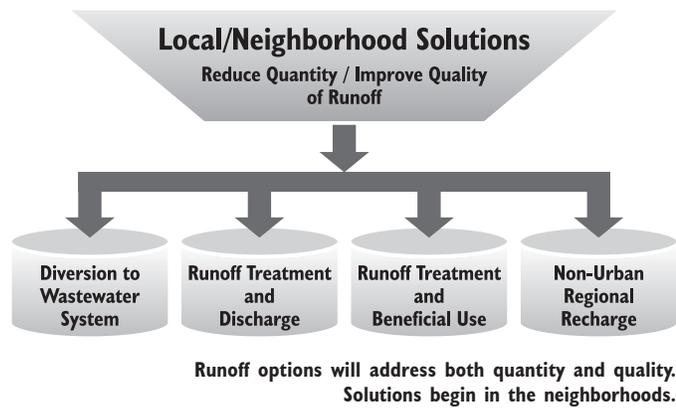
Using recycled water for irrigation could offset the use of imported water from other regions

Recycled water options (continued from page 2)

- ◆ Recharging the groundwater basin using treated runoff
- ◆ Balancing the needs of the Los Angeles River, and
- ◆ Some combination of the above.

The **runoff** options identified for the IRP include:

- ◆ Local/neighborhood solutions (see figure below)
- ◆ Diversion to wastewater system
- ◆ Runoff treatment and discharge to water body, i.e. Los Angeles River and the ocean
- ◆ Runoff treatment and beneficial use
- ◆ Non-urban regional recharge
- ◆ Some combination of the above



Creating Alternatives

The process of finding a recommended alternative for the Integrated Resources Plan begins by assembling the individual **options** of meeting wastewater, recycled water, or runoff needs. Combinations of options are arranged to develop many functional **alternatives** for each service function (e.g., runoff and wastewater). **Integrated Alternatives** are then developed that join elements from different service functions.

Because of this cross-linkage of options, each alternative will perform differently. Each alternative will be evaluated, and its strengths and weaknesses identified and reported back to the Steering, Advisory and Information Groups for further consideration. All alternatives must:

- ◆ Provide adequate wastewater conveyance and treatment capacity
- ◆ Provide enough recycled water/runoff to protect the Los Angeles River
- ◆ Provide conservation savings
- ◆ Meet current regulations
- ◆ Provide some level of beneficial use of runoff
- ◆ Address environmental justice concerns

- ◆ Meet near-term/immediate project needs
- ◆ Provide multiple community benefits (for new or expanded treatment facilities)

Building alternatives with different focuses will allow for thorough assessment and discussion of trade-offs regarding **cost, adaptability, beneficial uses of resources, risks,** and the potential for being **decentralized.**

As the IRP team weaves together appropriate elements for four final integrated alternatives, the Steering, Advisory, and Information Groups will continue to hear about various alternatives and opportunities to use existing and planned facilities for multiple benefit purposes and thereby reduce the overall cost to the City for upgrading its water infrastructure and enhance quality of life. In addition, while several alternatives will be developed and tested along the way, the final alternative will need to fit within the Guiding Principles identified during Phase I.

Estimate of Current IRP Progress

To date, the IRP has compiled detailed information on 2020 needs and wastewater, recycled water, and runoff options to meet those needs. This work has been shared with the Steering Group through six workshops and the Advisory Group in meetings around the City. The process of looking at alternatives is now underway.

Projected Future IRP Progress

- ◆ IRP Scope of Work is being revised to include a sustainability analysis and implementation plan for the Santa Monica Bay Bacteria Wet Weather Total Maximum Daily Loads.
- ◆ By February 2004, after the stakeholders' input into the integrated alternatives evaluation and after incorporating the financial and environmental performance measures, the final integrated alternatives will be developed.
- ◆ By March 2004, the draft Environmental Impact Report (EIR/EIS) process is expected to start.
- ◆ By February 2005, the final EIR/EIS will be completed.
- ◆ By April 2005, the Financial Plan will be completed.
- ◆ By June 2005, the IRP will be completed.

For IRP Information

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The Steering Group Workshop Schedule (Through Winter)

- Workshop 7 September 25, 2003
- Workshop 8 November 5, 2003
- Workshop 9 January 22, 2004 (tentative)

The Steering group meets at the City's offices at 2714 Media Center Drive, Los Angeles California 90065. The office is just south of the intersection of the Glendale Freeway and San Fernando Road. Call 323 342-6233 for details.

Spreading the Word

If your organization has its own website, would you help us spread the word about the IRP? Please contact Amy Jones at **323 342-6233**, or at **aljones@san.lacity.org** to set up a link to the IRP webpage. You can visit our webpage at **http://online2.cdm.com/cityofla/irp/**.

TreePeople's Eco-Tours and IRP Join Forces

The IRP team has proudly become a supporter of Eco-tours of Coldwater Canyon, a hands-on, outdoor environmental education program run by TreePeople. Our support will help increase the number of Eco-tours offered over the next year. Eco-tours offer elementary school children a chance to explore nature, hands-on, under the guidance of environmental educators. Small groups of students and their teachers follow trails in Coldwater Canyon Park, TreePeople's home, as they learn about nature's cycles, animals and plants and how people are both affected by and create affects on these cycles. Children discover for themselves what they can do to help sustain and restore our natural environment. The education continues in the classroom with a curriculum guide, The Magical City Forest, which is given to classroom teachers after the tour is completed. For more information, call the TreePeople Elementary School Education office 818 623-4859 or email education@treepeople.org.



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