

## MINUTES OF ADJOURNED REGULAR MEETING – MAY 16, 2008

The adjourned regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order by President Miller at 7:30 a.m., May 16, 2008 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Matheis, Miller, Swan, Withers, and Reinhart

Directors Absent: None

Also Present: General Manager Jones, Assistant General Manager Cook, Legal Counsel Arneson, Ms. Debby Cherney, Mr. Greg Heiertz, Mr. Mike Hoolihan, Mr. Wayne Posey and other members of the public and staff.

COMMUNICATIONS TO THE BOARD - None

### WORKSHOP

General Manager Jones reviewed the agenda, ground rules and desired outcomes which included: 1) continue discussion of water supply reliability including alternative supply projects; 2) review and discuss recycled water system operations; 3) review and discuss strategies and economics; 4) receive update on biosolids handling; 5) review Target activities; and 6) brainstorm new strategic initiatives and future agenda items.

### IRWD POTABLE WATER SUPPLY RELIABILITY STUDY – PRELIMINARY RESULTS

Using a PowerPoint presentation, Mr. Mike Hoolihan highlighted the purpose of the Potable Water Supply Reliability Study. He said that study would: 1) characterize uncertainties in potable water demands and supplies; 2) estimate supply reliability of existing supplies; 3) determine the reliability requirements; and 4) provide technical input for the development of a reliability policy for IRWD. He discussed system reliability and said that outages of key facilities could be caused by seismic events, facility failures due to age and material deficiencies, terrorism or other unknown factors. He said that relative to supply reliability, cutback from key supply sources are due to environmental restrictions, climate change, and weather patterns. He said the proposed policy would provide supply reliability by developing a diverse supply mix that would meet the estimated average annual demands at build-out using reasonably foreseeable environmental and climate change restrictions. He said that for system reliability, the proposed policy would develop a diverse supply mix that would meet 80% of maximum day demands at build-out using the worst case, reasonably foreseeable system outage scenario. He further discussed planned supply projects along with other possible supply projects. Staff received suggestions from the Board for further evaluation and refinement of the preliminary study assumptions. Following discussion, President Miller thanked Mr. Hoolihan for his efforts on this study.

## RECYCLED WATER SYSTEM OPERATIONS ANALYSIS

Mr. Mike Hoolihan reported that with the completion of the Water Resources Master Plan in 1999, staff developed the Water Resources Mass Balance Model which allows staff analysis of different recycled water supply scenarios by balancing recycled water demands with treatment capacity, seasonal storage, supplemental non-potable supplies, and available sewage flows. The main objectives when balancing the model is to minimize sewage flow to Orange County Sanitation District (OCSD) (thus minimizing CORF cost) and also avoiding any unnecessary imported untreated water from MWD. Mr. Hoolihan then gave a presentation and demonstrated how the model works.

Mr. Hoolihan reported that questions had been raised regarding seasonal storage and GAP service pertaining to the potential advantages of starting or curtailing GAP service at varying times to better optimize IRWD's storage. Staff analyzed these questions and has determined that serving recycled water to GAP earlier in the year would only be advantageous if in those months IRWD had excess storage which could be later filled with recycled water, and the Michelson Water Reclamation Plant (MWRP) was not operating at full capacity. He said that these co-dependent conditions do not presently exist, and based upon current modeling, may only exist for a brief period of time in the future (post 2010, depending on actual demands) when the MWRP is initially expanded to 28 MGD.

Currently, staff expects to use all of the 4,250 AF of seasonal storage available with the ability to transfer recycled water from LAWRP into the MWRP service area, and with the expansion of MWRP to 18 MGD and the HATS diversion. On a moving forward basis, GAP water will be served predominately from excess LAWRP recycled water and IDP water, and will only use imported water if necessary.

Following discussion, staff was asked to initiate negotiation with Orange County Water District and Orange County Sanitation District for Green Acres Project service after 2011.

## MICHELSON WATER RECLAMATION PLANT BIOSOLIDS INVESTIGATION

Using a PowerPoint presentation, Mr. Greg Heiertz discussed the OCSD charge methodology. Mr. Heiertz discussed alternatives, including: 1) discharge to OCSD; 2) digestion/discharge to OCSD; 3) primary and WAS thickening/digestion/discharge to OCSD; 4) primary and WAS thickening/digestion/dewatering/disposal; and 5) primary and WAS thickening/digestion/dewatering/drying/disposal.

Mr. Heiertz discussed proposed biosolids studies including: 1) calculating OCSD's capital cost of handling IRWD's biosolids from MWRP, and 2) MWRP energy and efficiency and recycling master plan.

## IRWD GOALS AND PRIORITIES

General Manager Jones briefly reviewed IRWD's goals and priorities.

ADJOURNMENT

There being no further business, President Miller adjourned the meeting.

APPROVED and SIGNED this 9th day of June, 2008.

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President, IRVINE RANCH WATER DISTRICT

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Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

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Legal Counsel - Bowie, Arneson, Wiles & Giannone