

S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY
11615 Sterling Avenue, Riverside, California 92503 · Voice/Fax (909) 354-4220

NOTICE AND AGENDA

TECHNICAL COMMITTEE OF GENERAL MANAGERS ORANGE COUNTY BRINE LINE WORKSHOP

THURSDAY, SEPTEMBER 25, 2003 –9:30 A.M.

Downtown Anaheim Community Center
250 East Center Street, Performing Arts Room,
Anaheim, 92805
(adjacent to Anaheim City Hall)

AGENDA

1. Call to Order (Chairman Donald L. Harriger)
2. Members of the Public May Address the Committee on Matters Within its Jurisdiction

Members of the public may address the Commission on any item that is within the jurisdiction of the Commission; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) Section 54954.2 of the Government Code.

3. Orange County Brine Line Workshop
This is the first of two workshops to identify issues that must be considered, the order of magnitude costs, and an implementation plan that includes the CEQA public disclosure process, and SAWPA decision-making process for implementation of this project. The purpose of this workshop is to receive input and comments from all interested stakeholders on the discussion topics.
 - **Introductions & Opening Comments – Joe Grindstaff, General Manager - SAWPA**
 - **Consultant's Presentation - Camp Dresser & McKee**
 - Purpose of Workshop
 - Background Information
 - Purpose and Objectives of the Brine Line Feasibility Study

- Agencies and Stakeholder Involvement
 - Ocean Outfall Brine Discharge Options
 - Benefits and Preliminary Costs
 - Ocean Discharge Requirements
- **Public Comment**

NOTE: If you wish to provide oral comments, please complete the **Public Comment Card** (available from the Recording Secretary). Comments are requested to be limited to **five minutes** per speaker.

Written comments are preferred, and can be submitted to the Recording Secretary on the attached Comment Sheet.

4. Adjournment

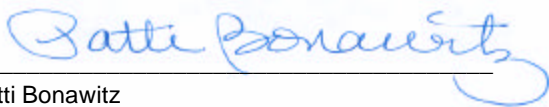
Any person with a disability who requires accommodation in order to participate in this meeting should telephone Board Secretary Patti Bonawitz at (909) 354-4230, at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

Committee Members:

Donald L. Harriger, Chair/General Manager, Western Municipal Water District
Robert Reiter, General Manager, San Bernardino Valley Municipal Water District
Tony Pack, General Manager, Eastern Municipal Water District
Richard Atwater, General Manager, Inland Empire Utilities Agency
Virginia Grebbien, General Manager, Orange County Water District

Declaration of Posting

I, Patti Bonawitz, Board Secretary of the Santa Ana Watershed Project Authority certify that a copy of this agenda has been posted by 5:30 p.m. in the Agency's main office, 11615 Sterling Avenue, Riverside, on Friday, September 19, 2003.



Patti Bonawitz



Santa Ana Watershed Project Authority
Brine Line in Orange County

Workshop No. 1 - September 25, 2003
Comment Sheet

Subject: *Workshop No. 1 - Brine Line in Orange County*
Date: *September 25, 2003*

Name: _____

Representing: _____

Address: _____

Phone: _____ **Fax:** _____

E-Mail: _____

Comment(s):

Preferred Media Response (letter, e-mail, phone, fax?): _____

Would you prefer a personal call to discuss your comment/concern? ___ Yes ___ No



SANTA ANA WATERSHED PROJECT AUTHORITY

BRINE LINE THROUGH ORANGE COUNTY OC Brine Line Concept Study

Issue Papers – Table of Contents

Issue Paper No. 1 – Outfall Options

1. Preliminary identification of technical issues
 - 1.1 Evaluation of physical parameters of outfall systems to accept OC Brine Line flow via three discharge options (120” OCSD, 78” OCSD, & AES outfalls)
 - Design and historic/current flow information
 - Outfall design parameters
 - Hydraulic limitations
 - Diffusion potential
 - 1.2 Identification of additional infrastructure needs
 - Inter-ties
 - Emergency bypass(es)
 - 1.3 Water quality constraints (based on potential flows and diffusion potential)
 - OC Brine Line and other agencies discharges
2. Preliminary identification of institutional issues
 - 2.1 Identify ownership and constraints for use of three discharge options
 - 2.2 Identify preliminary regulatory requirements and constraints
3. Preliminary identification of financial and non-financial benefits and constraints
 - 3.1 Preliminary capital costs for needed infrastructure
 - 3.2 Potential benefits to and fees for use of third-party facilities
 - 3.3 Operation and maintenance costs

Issue Paper No. 2 – Regulatory Issues

1. Preliminary assessment of permitting requirements for each of the three discharge options
 - 1.1 In combination with an existing discharge (120” OCSD or AES outfall)
 - 1.2 Independently, or with other agency flows (78” outfall)
 - California Ocean Plan
 - Santa Ana Regional Water Quality Control Board
 - Pertinent regulatory issues
2. Identify data collection/analyses requirements necessary to meet permitting requirements
3. Obtain OCSD pretreatment requirements
4. Identify interest groups and issues
5. Outline potential regulatory issues
6. Preliminary assessment of project impacts
7. Potential mitigation measures
8. Potential costs and anticipated timelines (ranges) for addressing regulatory issues and/or permitting requirements

Issue Paper No. 3 – Upper SARI Dischargers Pretreatment

1. Identification of upper basin SARI dischargers
2. Identification of flows (average, peaks) and constituents of concern of dischargers
3. Identify preliminary pretreatment requirements for discharger categories
4. Develop preliminary capital and O&M costs for pretreatment
5. Summarize/update status and concept for domestic discharge relocation requirements from SARI Planning Study (e.g., Corona has schedule for installing lift station for Green River connection)

Issue Paper No. 4 – OC Brine Line Alignment and Sizing

1. Timing and potential impacts of the existing SARI (brine and domestic) discharges to OCWD/OCSD Groundwater Replenishment System (GWRS) project
 - Water quality (including DHS' position regarding SARI discharges)
 - Flows (daily average, hourly), including GWRS flow requirements
2. Identify other potential brine dischargers in Orange County
 - Timing
 - Flows
 - Water Quality
3. Identify institutional and technical requirements related to OC portion of brine line
4. Develop conceptual capital cost for the installation of the OC portion of the brine line
5. Identify benefits and shared costs for combined IRWD/SAWPA/Others flows

Issue Paper No. 5 – Cost Model

1. Indicate potential capital improvements and develop preliminary capital costs for OC portion of Brine Line
 - Cost-related impacts to SAWPA dischargers
 - Potential upsizing of IRWD (and/or other) portion(s) of brine line
 - Potential ocean outfall cost/fee impacts
 - Increased or reduced SARI / OC Brine Line O&M costs
2. Assess potential financial impacts due to mitigation measures
3. Identify potential funding sources
4. Evaluate potential funding sources and cost allocations to SAWPA and member agencies
5. Include model assumptions and sensitivity capabilities
6. Determine “break-even” point for OC Brine Line vs. “status quo”

Issue Paper No. 6 – Implementation Plan

1. Recommended implementation strategy for domestic discharges
2. Necessary permit and operational changes to existing upper SARI brine line, and proposed timing
3. Schedule for addressing institutional (agreements) and/or regulatory issues (permits)
4. Schedule for implementation of facility improvements (including “decision timelines”)
5. Include known timeline constraints and/or on-line requirements (i. e., Term Sheet requirements)
6. Preliminary cost/funding schedule

S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

Orange County Brine Line Feasibility Study Notice of Public Workshops

The Santa Ana Watershed Project Authority (SAWPA), a joint powers authority comprised of five water/wastewater agencies in Orange, Riverside, and San Bernardino Counties, is initiating a feasibility study to evaluate the merits of expanding the existing Orange County Brine Line. The existing brine line transports salt from water, waste-water and industrial facilities for discharge. The expanded Brine Line will connect to an existing ocean outfall and brine line to discharge the concentrated salts several miles offshore. These brine lines meet all applicable water quality requirements.

Two workshops will be conducted to identify issues that must be considered, the order of magnitude costs and an implementation plan that includes the California Environmental Quality Act public disclosure process and SAWPA decision-making processes for implementation or non-implementation of this project.

The purpose of the workshops is to receive input and comments from all interested stakeholders (i.e., regulatory agencies, environmental and citizen groups, and those from coastal communities) on the discussion topics. The facilitated workshops will be conducted during a meeting of SAWPA's Technical Committee of General Managers in a study session format.

Information will be available in advance of the meeting for individuals/agencies providing email addresses (preferred), or other contact information to SAWPA staff contact:
Rich Haller, (909) 354-4240, rhaller@sawpa.org

Workshop 1: **Thursday, September 25, 2003 9:30 AM – 11:30 AM**

Downtown Anaheim Community Center
250 East Center Street, Performing Arts Room, Anaheim, 92805
(adjacent to Anaheim City Hall)

Topics - Review Outfall Options, Regulatory/Institutional Issues

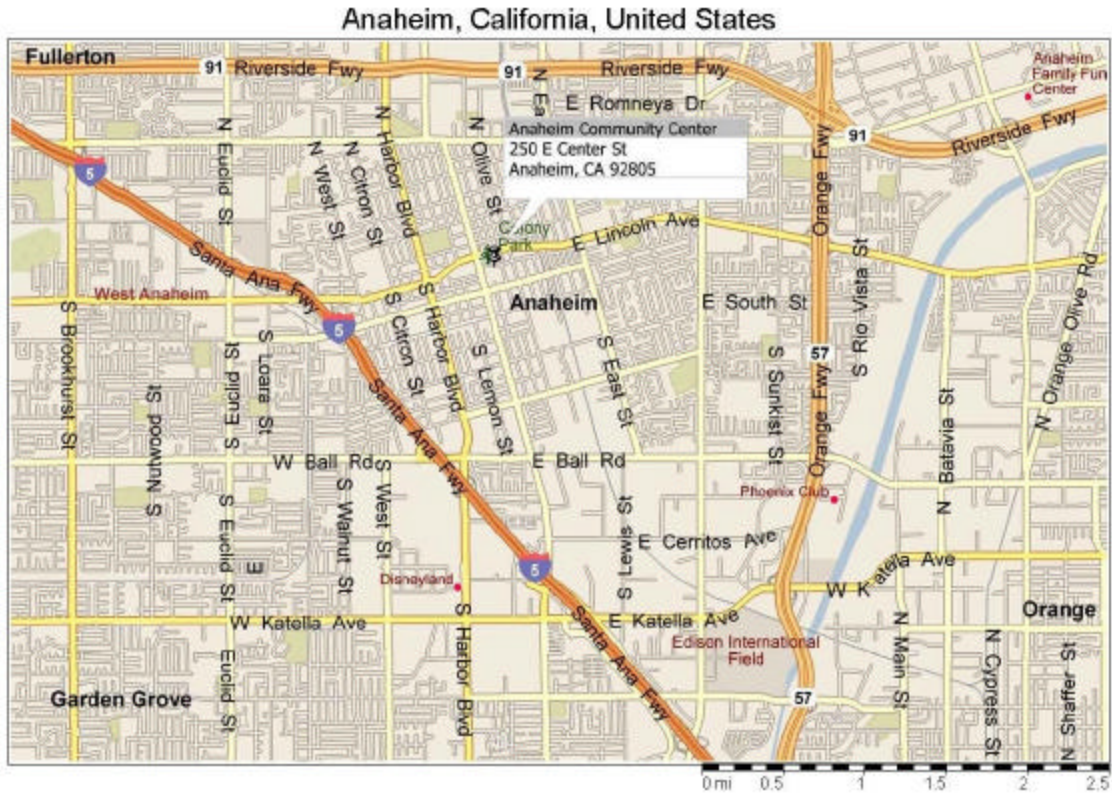
Workshop 2: **Monday, November 17, 2003 9:30 AM– 11:30 AM**

SAWPA (11615 Sterling Avenue, Riverside, CA 92503)

Topics – Pretreatment of Upper SARI Discharges, Pipeline Alignment/Sizing, Cost Model, and Implementation Strategy/Plan

Map

Downtown Anaheim - Community Center
250 East Center Street - Performing Arts Room
Anaheim, 92805





Orange County Brine Line Feasibility Study

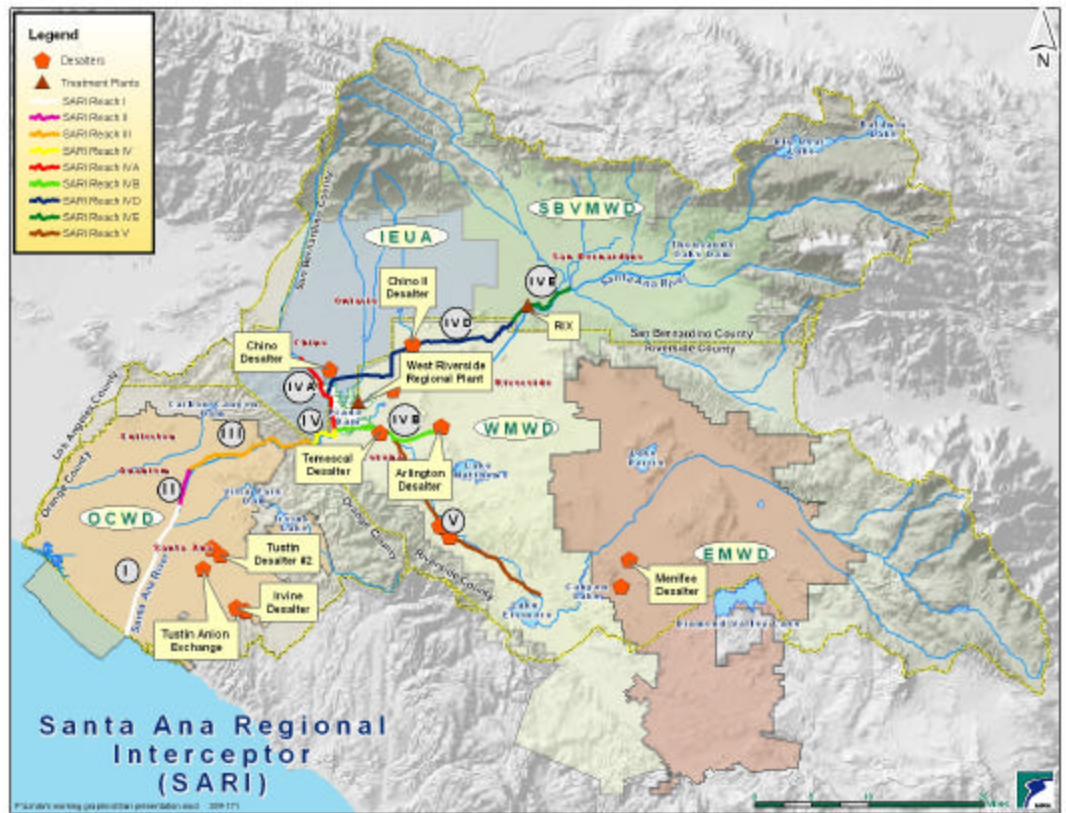
The Study is the preliminary evaluation of the feasibility for segregating brine flows from domestic wastewater, for discharge to an ocean outfall. The concept considers installation of a new “brine-only” pipeline through Orange County. Treatment of waters prior to discharge into the brine line or rerouting certain non-brine discharges to traditional domestic wastewater treatment plants in the Upper Santa Ana River area would also be required. The Study is intended to evaluate the benefits of a brine-only pipeline in all three counties such as, reuse of a portion of the flow in the Groundwater Replenishment System being constructed by OCWD and OCSD, making available additional Orange County pipeline and treatment plant capacities and reducing disposal costs for brine-only discharges which meet ocean discharge water quality requirements. The Feasibility Study will incorporate six issue papers addressing outfall options, regulatory issues, upper SARI dischargers pretreatment, brine line alignment and sizing, cost model, and implementation plan.

Background

The Santa Ana Regional Interceptor (SARI) in its current configuration of over 90 miles of pipeline, transports “brine” and wastewater from Orange, Riverside, and San Bernardino Counties to Orange County Sanitation District’s (OCSD’s) Regional Treatment Plant No. 1, or No. 2. Initial segments of the SARI were constructed in 1975, with the most recent segment (Reach V) completed in 2002.

The SARI is an important regional water quality asset because it prevents water containing salts (also termed “brine”) from being discharged into the Santa Ana River, which would then percolate into Orange County’s groundwater basin.

The “brine” contained in the SARI, which is significantly less salty than ocean water, comes mostly from desalter plants operated to remove salt from existing groundwater, making the treated water available for use. One example is the Arlington Desalter which removes salt from water extracted from the Arlington Groundwater Basin and delivers the treated water to Orange County Water District (OCWD) for percolation into Orange County’s groundwater basin. In order to reduce the watershed’s reliance on imported State Project and Colorado River water, to remove salts from the groundwater basins, and to ultimately achieve a “salt balance” in the watershed, a



number of additional desalters are under construction, or planned for the near future. For further background information on the existing SARI and salt imbalance in the watershed, see the SARI Planning Study and the Water Resources Plan posted to SAWPA’s website at www.sawpa.org/iwp

For more information on SAWPA and its five members agencies, see SAWPA’s website at www.sawpa.org
SAWPA staff contact: Rich Haller, (909) 354-4240, rhaller@sawpa.org