



California Regional Water Quality Control Board

Colorado River Basin Region



Gray Davis
Governor

Winston H. Hickox
Secretary for
Environmental
Protection

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DEVELOPMENT AND IMPLEMENTATION OF NUTRIENT TOTAL MAXIMUM DAILY LOADS FOR THE SALTON SEA

TECHNICAL ADVISORY COMMITTEE Meeting Agenda

Thursday, January 17, 2002, 10:00 AM -12:30 PM.
California Regional Water Quality Control Board
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA

10:00 -10:10 – Introductions

10:10 – 11:10 – Nomination of Officers

TAC Structure

- Goals, Objectives and Functions.
- Bylaws

11:10 -12:10 – Salton Sea Background Information

- Nutrient Loading to Salton Sea
- Focusing on N, P or what?

12:10 -12:20 – Action Items

- TAC List corrections
- Set date and agenda for next meeting
- Questions and Comments
- Adjournment

California Environmental Protection Agency



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DEVELOPMENT AND IMPLEMENTATION OF NUTRIENT TOTAL MAXIMUM DAILY LOAD FOR THE SALTON SEA

TECHNICAL ADVISORY COMMITTEE MEETING

MINUTES OF THE MEETING

November 28, 2001

1. Introductions

The first meeting of the Technical Advisory Committee (TAC) for Development and Implementation of the Nutrient Total Maximum Daily Load for the Salton Sea was called to order by Teresa Newkirk, TMDL Development Unit Chief, Regional Water Quality Control Board at 10:00 AM. Attendees introduced themselves and stated their agency and/or area of interest. Attached is a list of the people who attended the meeting.

2. Briefing (TMDL Background, Goals, Objectives and Functions)

Phil Gruenberg, Executive Officer of the Regional Water Quality Control Board – Region 7, gave a brief summary of the cleaning efforts at the New River and shared his vision of how to achieve the Salton Sea Nutrient TMDL. Afterwards, Jose Angel, Supervisor of Watershed Protection/Support Unit, presented a review of the TMDL process, communicated the Regional Board expectations from the TAC, and shared the critical needs of the Salton Sea Nutrient TMDL.

3. Questions and Comments

The following comments and/or recommendations were made by the TAC:

- Nutrient cleaning efforts in Lake Okeechobee, FL should be checked into so we could learn from their accomplishments and errors.
- An additional north shore farmer should be added to the TAC.
- An Imperial municipality should be added to the TAC.
- Concern was raised over the level of attendance at the Sediment TMDL TAC. It was suggested that there be a certain level of attendance required to maintain membership of the Salton Sea Nutrient TMDL TAC.
- The meetings must all have a full agenda in order to compensate for the long drive of some members.
- ~~An internet system would make the communication easy among the TAC members. University of Redlands volunteered to assist on it.~~
- The decision of which nutrients need to be addressed in the TMDL still needs to be decided on.

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- Suggestions for the next agenda included: (1) Discuss how fertilizers are applied, their concentrations and amounts. Bali and McGee agreed to help with that. (2) A summary of the nutrient loading to the Salton Sea, and the current data gaps.
- Suggestions to establish TAC by-laws including: (1) Establish the TAC rules of conduct. (2) Procedure to add new members. (3) Establish meeting places and times. (4) Majority vote with minority reports.

4. TAC Resources

List of TAC Resources is attached.

5. Nomination of Officers

- Decision to vote on officers will be held at the next TAC meeting.
- It was decided to vote for Chair, Vice-Chair and Secretary positions.

6. Next Meeting

The next TAC meeting will be Thursday, January 17, 2002, 10:00 AM -12:20 PM at the California Regional Water Quality Control Board Conference Room, 73-720 Fred Waring Drive, Suite 100, Palm Desert, CA.

7. Adjournment

The meeting was adjourned at 12:00 PM.

First TAC Meeting Attendance List

| NAME | AFFILIATION |
|-----------------------|------------------------|
| Charles Phillips | SAIC |
| Jim Setmire | USGS/USBR |
| John Pierre Menvielle | Farmer |
| Jose L. Angel | CRWQCB(7) |
| Alan Harrell | CVWD |
| Nicole Rothfleisch | ICFB |
| Al Kalin | Farmer |
| Linden Anderson | Riv. Co. FB/Farmer |
| G. S. Sidhu | Riv. Co. Ag. Comm. |
| Steve Charlton | IID |
| Jacqueline Lesch | University of Redlands |
| Elston Grubaugh | IID |
| Eldon Lee | City of Coachella |
| Doug Barnum | SS Science Office |
| John Snyder | Riv. Co. Ag. Comm. |
| Cydean Gillespie | NRCS/USDA |
| Susanne Lockhart | Dudek & Associates |
| Debi Livesay | Torres Martinez Tribe |
| Alberto Ramirez | Torres Martinez Tribe |
| Khaled Bali | UCCE |
| Juan Guerrero | UCCE |
| Dee Bradshaw | IID |
| Richard Mestan | IID ELC |
| Eric McGee | Weston Farm Service |
| Phil Gruenberg | CRWQCB(7) |
| Teresa Newkirk | CRWQCB(7) |
| Francisco Costa | CRWQCB(7) |
| Ivory Reyburn | CRWQCB(7) |
| Jose Cortez | CRWQCB(7) |
| Joan Stormo | CRWQCB(7) |
| Doug Wylie | CRWQCB(7) |
| Logan Raub | CRWQCB(7) |
| Phan Le | CRWQCB(7) |

Resources TAC members can provide:

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|--|--|
| Salton Sea Science Office | <ul style="list-style-type: none"> • Workshops • literature • SS Restoration information • Willing to host workshops • Conduit to scientific community; i.e. USGS |
| US Bureau of Reclamation | <ul style="list-style-type: none"> • Authored several reports being used here today – Salton Sea • Experience in the area |
| USDA/NRCS | <ul style="list-style-type: none"> • Technical assistance • Biologists and engineers |
| UC Cooperative Extension | <ul style="list-style-type: none"> • Outreach and Education in Imperial Valley • Production guidelines • Application resources |
| Imperial County Farm Bureau | <ul style="list-style-type: none"> • Outreach with farmers • 50% of IV farmers are voluntarily signed up for TMDL |
| Riverside County Ag. Commissioner | <ul style="list-style-type: none"> • Outreach with growers • Keep supervisors appraised |
| Western Farm Service | <ul style="list-style-type: none"> • Information on supply of fertilizer to growers |
| University of Redlands | <ul style="list-style-type: none"> • GIS • Technicians and analysts • Information on Salton Sea • Digital Library on Salton Sea |
| Coachella Valley Water District | <ul style="list-style-type: none"> • Crop reports • Waste water treatment plant information |
| Riverside County Farm Bureau | <ul style="list-style-type: none"> • Growers relationship in Coachella Valley |
| Kalin Farms | <ul style="list-style-type: none"> • Input from farmer perspective • Interest in Salton Sea (recreation, farming) • Has a boat |

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| Torres Martinez Desert Cahuilla Indians | <ul style="list-style-type: none"> • Outreach • 12,000 acres on the sea • interest in sea • environment they want to save for both ecological and economical reasons |
| IID | <ul style="list-style-type: none"> • GIS with Redlands • Have all monitoring data • Water • Access to sampling points |
| Menvielle Farms | <ul style="list-style-type: none"> • View as farmer • Working with Farm Bureau and IID |
| City of Coachella | <ul style="list-style-type: none"> • Interest same as Imperial Valley Farmers • Economics |
| Dudek & Associates | <ul style="list-style-type: none"> • Design treatment plants • Engineering perspective for WWTP • Science background |
| Science Applications International Corporation | <ul style="list-style-type: none"> • Expertise • Quality • Time |
| Salton Sea Authority | <ul style="list-style-type: none"> • Field application for field reduction of phosphorus • Contract with UCR for pre-testing • Field testing next fall |

**Resources that California Regional Water Quality Control Board has to offer to
Technical Advisory Committee for Development and Implementation of Nutrient
Total Maximum Daily Loads for the Salton Sea**

- Logistics and place for the monthly meetings.
- A sampling program to assess the nutrient load at the Salton Sea.
- A computer model in development to relate phosphorus concentration to algal growth at the Salton Sea.
- An experienced staff to help with the craft of the mandatory sections of the TMDL.
- An experienced staff to help with the craft of the TMDL Source Analysis.
- Publications like:
 - Setmire, J.G., Schroeder, R.A., Densmore, J.N., Goodbred, S.L., Audet, D.J., and Radke, W.R. 1993. Detailed Study of Water Quality, Bottom Sediment, and Biota Associated with Irrigation Drainage in the Salton Sea Area, California, 1988-90: U.S. Geological Survey Water-Resources Investigations Report 93-4014. U.S. Geological Survey, Sacramento, California.
 - Setmire, J.G., Wolfe, J.C., and Stroud, R.K. 1990. Reconnaissance Investigation of Water Quality, Bottom Sediment, and Biota Associated with Irrigation Drainage in the Salton Sea Area, California, 1986-87: U.S. Geological Survey Water-Resources Investigations Report 89-4102. U.S. Geological Survey, Sacramento, California.
 - U. S. Environmental Protection Agency. 1999. Protocol for Developing Nutrient TMDLs. U. S. Environmental Protection Agency, Washington, D.C.
 - U. S. Environmental Protection Agency. 1991. Guidance for Water Quality-based decisions: The TMDL process. EPA 440/4-91-001. U. S. Environmental Protection Agency, Washington, D.C.

Technical Advisory Committee (TAC) for development and implementation of
Nutrient Total Maximum Daily Load (TMDL) for the Salton Sea

| Member Name | Contact Address/Telephone | Organization/Affiliation |
|-------------------------------------|--|---------------------------------|
| Linden Anderson | Riverside County Farm Bureau 21160 Box Springs Road, Suite 102 Moreno Valley, CA 92557 Tel direct: (760)344-2571 Tel: (909)684-6732 Fax: (909)782-0621 | Riverside County Farm Bureau |
| Doug Barnum | Salton Sea Science Office 78-401 Highway 111, Suite R La Quinta, CA 92253 Tel: (760) 777-1564 Fax: (760) 564-5288 | Salton Sea Science Office |
| Khaled M. Bali | UC Cooperative Extension 1050 E. Holton Road Holtville, CA 92250-9615 Tel: (760) 352-9474 Fax: (760) 352-0846 | UC Cooperative Extension |
| Stephen L. Birdsall | Imperial County Agricultural Commissioner 150 South 9 th Street El Centro, CA 92243- 2850 Tel: (760) 482-4314 | Imperial County |
| Cydean Gillespie (Steve Cameron) | USDA/NRCS 177 N. Imperial Avenue El Centro, CA 92243 Tel (760) 352-7886 x-106 (760) 352-4418 Fax: (760) 352-0219 cydean.gillespie@ca.usda.gov | USDA/NRCS |

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|-------------------------------------|--|------------------------------|
| Elston Grubaugh (Steve Charlton) | Imperial Irrigation District P.O. Box 937 Imperial, CA 92251 Tel: (760)339-9109 | Imperial Irrigation District |
| Sabine Huynen (Jacqueline Lesch) | University of Redlands Salton Sea Database Program 1200 East Colton Avenue Redlands, CA 92373 Tel: (909) 335-5268 Huynen@redlands.uor.edu | University of Redlands |
| Al K. Kalin | Kalin Farms P. O. Box 1234 Brawley, CA 92227 Tel: (760) 344-2550 Fax: (760) 344-5331 Akalin@quix.net | Farmer – Imperial County |
| Tom Kirk | Salton Sea Authority 78-401 Highway 111, Suite T La Quinta, CA 92253 Tel: (760) 564-4888 | Salton Sea Authority |
| Eldon Lee | City of Coachella 1515 Sixth Street Coachella, CA 92236 Tel: (760) 398-5744 Fax: (760) 398-1630 Elee@coachella.org | City of Coachella |
| Susanne Lockhart | Dudek & Associates 605 Third Street Encinitas, California 92024 Tel: (760) 942-5147 x109 Fax: (760) 942-4508 Cell: (760) 415-4338 Slockhart@dudek.com | Dudek & Associates |
| John Menvielle | 1272 East Jasper Road Heber, CA 92249 Tel: (760) 357-6586 | Farmer – Imperial County |

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|---------------------------------------|--|---|
| | Fax: (760) 357-2515 | |
| Eric McGee (Chuck Schmidt) | Western Farm Service 2787 West Bullard Ave., Suite 105 Fresno, CA 93711 Tel: (559) 436-2936 Fax: (559) 436-2948 Mobile: (559) 285-8566 | Fertilizer Industry |
| Don Mitchell | Coachella Valley Water District (CVWD) P.O. Box 1058 Coachella, CA 92236 Tel: (760) 398-2651 x239 | Coachella Valley Water District (CVWD) |
| Charles Phillips | Science Applications International Corporation 10260 Campus Point Dr. San Diego, CA 92121- 1578 Tel: (858) 826-7491 | Science Applications International Corporation |
| Alberto Ramirez | Honorable Mary Belardo Torres Martinez Desert Cahuilla Indians P.O. Box 1160 Thermal, CA 92274 Tel: (760) 397-8145 Fax: (760) 397-1019 e-mail: TEPADirect@aol.com | Torres Martinez Desert Cahuilla Indians |
| Carol Roberts | U.S. Department of Interior Fish and Wildlife Service 2730 Loker Avenue West Carlsbad, CA 92008 Tel: (760) 431-9440 | Fish and Wildlife Service |
| Nicole Rothfleisch | Imperial County Farm Bureau 1000 Broadway El Centro, CA 92243 | Imperial County Farm Bureau |

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|---------------|---|-----------------------|
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| Jim Setmire | U.S. Department of Interior Bureau of Reclamation 27710 Jefferson Avenue, Suite 201 Temecula, CA 92590 Tel: (909) 695-5310 Jsetmire@lc.usbr.gov | Bureau of Reclamation |
| James Wallace | Riverside County Agricultural Commissioner P.O. Box 1089 Riverside, CA 92502- 1089 Tel: (909) 955-3045 | Riverside County |