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Naval Facilities Engineering Command  
Southwest Division  
Mr. Paul Kennedy, Code 0233.PK (O)  
Building 128  
1220 Pacific Highway  
San Diego, CA. 92132-5187

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FROM: [Signature]  
Program/Project Manager

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<u>L. Nuzum, Code 1831.LN (1C/2E)</u>	<u>J. Kluesener (1C)</u>	<u>J. Chavez, El Toro (1C/1E)</u>
<u>V. Garelick, Code 1852. VG (1C/1E)</u>	<u>D. Cowser (1C/1E)</u>	<u>Restoration Advisory Board</u>
<u>T. Martin, Code 1831.TM (1C/1E)</u>	<u>A. Schwartz (45/28/C81) (1C/1E)</u>	<u>Mailing List (120)</u>
<u>L. Hornecker, Code 1831.LMH (1C/1E)</u>	<u>El Toro File (1C/1E)</u>	
<u>D. Dunbar, Code 1831.DD (1C/1E)</u>	<u>B. Coleman (1C/2E for AR</u>	
<u>R. Selby, Code 1831.DD (1C/1E)</u>	<u>with mailing list)</u>	
<u>L. Saunders, Code 00DE1 (1C/1E)</u>	<u>Document Control (1C/1E</u>	
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**MCAS El Toro  
Restoration Advisory Board  
Meeting**

29 May 1996 6:30-9:00 PM

*Irvine City Hall  
Conference and Training Center  
One Civic Center Plaza  
Irvine*

**DRAFT AGENDA**

- **Welcome/Introductions/Agenda Review** Joseph Joyce
- **Old Business** Marcia Rudolph
  - Approval of 4/24/96 Minutes
- **New Business**
  - Status of Underground Storage Tank Program Lt. Hope Katcharian  
MCAS El Toro
  - BRAC Funding/Budget Process Dana Sakamoto  
U.S. Navy - Southwest Division, Naval  
Facilities Engineering Command
  - Tank 398 Fuel Recovery System Update  
and Slide Presentation Bill Sedlak  
OHM Remediation Corp.
  - Slide Presentation - Environmental Restoration  
Program Booth, MCAS El Toro Air Show Bob Coleman  
CLEAN II
  - Regulatory Agency Comment Update Bonnie Arthur  
U.S. Environmental Protection Agency  
Tayseer Mahmoud  
Cal-EPA, Dept. of Toxic Substances  
Control
  - Cost Estimates/Projections: Joseph Joyce
    - RAB meetings and support
    - Air Sparging Pilot Study/Soil Vapor Evaporation
    - Tank 398 remediation work
- **Meeting Summary** Joseph Joyce/Marcia Rudolph
  - Meeting Evaluation
  - Future Topics and Meetings
- **Closing** Joseph Joyce

PUBLIC NOTICE

***MARINE CORPS AIR STATION  
EL TORO***

**Restoration Advisory Board Meeting**



***Participate in the environmental restoration and  
cleanup program underway at MCAS El Toro.  
Your input is appreciated!***

**Wednesday, May 29, 1996  
6:30 - 9:00 p.m.**

**Irvine City Hall  
Conference and Training Center  
One Civic Center Plaza, Irvine**

This meeting will feature presentations on:

- ***Status of Underground Storage Tank Program***
- ***BRAC Funding/Budget Process***
- ***Slide Presentation - Jet Fuel Cleanup at Underground Storage Tank 398***



For more information about this meeting and the Installation Restoration Program at MCAS El Toro, please contact:

Commanding General, AC/S, Environmental (1AU),  
Attn: Ms. Charly Wiemert, MCAS El Toro,  
P.O. Box 95001, Santa Ana, CA 92709-5001  
(714) 726-2840

**MARINE CORPS AIR STATION EL TORO**  
**RESTORATION ADVISORY BOARD MEETING**

**24 APRIL, 1996**

*DRAFT MEETING MINUTES*

A Restoration Advisory Board (RAB) meeting for Marine Corps Air Station (MCAS) El Toro was held Wednesday, 24 April, 1996 at the Irvine City Hall. The meeting began at 6:35 p.m. These minutes summarize the discussions and presentations from this meeting.

**WELCOME/INTRODUCTIONS/AGENDA REVIEW**

Marine Corps/Navy RAB Co-Chair Joseph Joyce opened the meeting and welcomed members and the community. RAB Community Co-Chair Marcia Rudolph led the Pledge of Allegiance. Mr. Joyce then asked all attendees to introduce themselves, and reminded everyone to sign in on the sheets provided.

**OLD BUSINESS**

**Review and Approval of Minutes of 28 March, 1996 Meeting**

The RAB approved the minutes as issued. Ms. Rudolph reminded RAB members to follow the "blue sheet" of upcoming documents that lists scheduled publication and RAB review dates documents scheduled for release this year. A member asked if underground storage tank (UST) removal documents could be included on the list; Mr. Joyce agreed to include major UST reports in future lists.

**NEW BUSINESS**

**Air Sparging Technology Groundwater Cleanup Pilot Test (Site 24) - Pat Brooks, CLEAN II**

Mr. Brooks the project leader for the VOC Source Area Investigation and Feasibility Study discussed the team's plan to test insitu air sparging technology for possible groundwater cleanup for Site 24. He briefly explained that groundwater containing more than 500 parts per billion (ppb) of the industrial solvent trichloroethylene (TCE) at Site 24 is the focus of the pilot test. This "hot spot" of groundwater begins beneath Building 296 and extends about 2,500 feet to the northwest. The Phase II Remedial Investigation demonstrated that contaminated soil beneath Site 24 is the source of VOCs in the regional groundwater.

Currently, the Marine Corps/Navy is evaluating appropriate technologies for cleaning up TCE contamination at Site 24. As part of the feasibility study process that examines

various technologies, an insitu air sparging pilot test is being conducted to determine the effectiveness of this technology for removing VOCs from groundwater at Site 24. Several case studies from a 1995 U.S. Environmental Protection Agency Superfund conference reported successful remediation using air sparging. Additional details about the pilot test are available in the handout provided at the meeting.

Air sparging takes place in the ground and avoids the cost of bringing contaminated groundwater to the surface for treatment. The process involves injecting clean air into the groundwater aquifer creating bubbles of air which causes the VOCs, mainly TCE, to "partition" (become gaseous) and enter the air bubbles. The air bubbles then rise up to the unsaturated zone of soil above the water table where the soil vapor extraction system, which uses a vacuum process, removes the TCE-contaminated vapor from the soil. The soil vapor is then treated to remove the TCE using various methods, including carbon adsorption and incineration. After treatment, the remaining vapor is released to the atmosphere.

The pilot test uses a dual completed well, which is essentially two wells in the same boring: one above the water table to capture vapors, and one beneath the water table to force air into the aquifer. The test well is at the leading edge of the TCE plume at Site 24. The pilot test is designed to demonstrate that the vapor can be captured, that VOC concentrations in groundwater can be reduced, and that excessive clogging in the soil vapor extraction well does not occur. Additionally, the test will determine if air sparging and soil vapor extraction is effective in the stratified soil layers (silt and clay layers in the aquifer) at Site 24.

Rates of TCE removal can then be calculated based on the information collected from the pilot test. Cleanup effectiveness will be measured by the evaluation of water samples over time. The pilot test began the week of April 15. Minor adjustments were made to the soil vapor collection device, and testing resumed the week of April 29. Mr. Brooks expects the test to last approximately one week; however, test data will yield a more accurate indicator of how long the test should run.

In response to questions from RAB members on pilot test costs and implementing air sparging technology, Mr. Joyce agreed to present costs at the next RAB meeting.

### **Tank 398 Jet Fuel Removal and Cleanup Update - Bill Sedlak, OHM Remediation Services Corporation**

Mr. Bill Sedlak summarized the cleanup progress at the Tank 398 site which contained a 110,000 gallon tank of JP-5 jet fuel used for "hot" refueling (with the aircraft's engine running) that was located near the control tower. The groundwater in this area is approximately 200 feet deep, considerably deeper than in the VOC Source Area (Site 24). Jet fuel contamination was first detected in the soil in 1988. Pilot tests demonstrated that "free product" could be removed by pumping. Free product refers to jet fuel that is

floating on top of the groundwater table. In June 1995, the thickness of the free product plume ranged from zero to nearly 11 feet.

OHM was contracted to install and operate a remediation system to recover (pump out) free product from the site. The system entered into operation in December 1995. It currently consists of a single recovery well. Plans call for up to three new recovery wells at the site. During initial operations the system recovered only 160 gallons from 4 December to 16 February. OHM worked with the pump manufacturer to change the pump inlets and make other adjustments to match site conditions. Better results were achieved and product recovery is now approximately 100 to 120 gallons per week. As of 19 April, the system had recovered 1,250 gallons of free product. Specific system details are included in the handout provided at the meeting.

Additional tasks underway at Tank 398 include:

- Air sparging for groundwater;
- Soil vapor extraction for soil contamination;
- Targeting specific subsurface layers with wells; and
- Continuing free product recovery system operation.

A RAB member asked Mr. Sedlak to estimate the total amount of free product at the site; he replied that new information, based on the revised contours, will be forthcoming. In response to a question about disposal of the collected product, he explained that it will be recycled, most likely into fuel oil for sale to a commercial customer.

**Groundwater Monitoring Status Report - Andy Piszkin, Remedial Project Manager, U.S. Navy, Southwest Division, Naval Facilities Engineering Command**

Mr. Piszkin's presentation focused on the results of the groundwater sampling for the first quarter of 1996. The sampling program monitors and documents groundwater quality and flow; monitors and assesses existing plumes; and provides data to support cleanup actions.

During the sampling, a total of 163 well ports were sampled for various contaminants. Most of the on-station contamination is in the shallow aquifer, whereas most off-station contamination is in the principal, or deep, aquifer. Groundwater samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides and herbicides, metals, and general chemistry parameters including total organic carbons, dissolved oxygen, pH and turbidity.

Based on the preliminary results of the first quarter round of groundwater sampling, Mr. Piszkin noted the following data trends:

- Groundwater levels continue to rise.
- VOC concentrations are not increasing.
- VOC extent is generally steady.
- The on-station VOC Source Area has the same extent but with lower concentrations.

- The off-station VOC regional plume has the same extent and concentrations.
- Benzene concentrations are decreasing, however, benzene appears to be moving deeper.
- No non-VOC plumes are emanating from MCAS El Toro.
- For semi-volatile organic compounds (SVOCs) there were fewer compounds and lower concentrations detected.
- No detections were found for pesticides and herbicides at the landfills and at areas with previous detections of these contaminants.
- No significant concentrations of metals were found, and the results generally confirm past data.
- The general chemistry evaluation yielded more groundwater data, and helped outline the first treatability parameters to support cleanup actions. Results are generally consistent with past findings.
- No nitroaromatics and nitroamines were detected at the explosive ordnance disposal (EOD) range.
- No cyanide was found at the sludge drying beds at Site 12.

Mr. Piszkin recommends that groundwater monitoring be conducted every two months instead of monthly, that a consistent set of analytical parameters be maintained, and that sampling frequency be reduced for some wells. He would also like to see further assessment of the benzene contamination.

Next steps include reviewing and validating the results of Round 3 testing, establishing the approach for the next rounds, issuing a final monitoring report, and developing a long-term monitoring program. Mr. Piszkin recommends evaluating monitoring plans from other areas to see if they can be coordinated to prevent expensive duplication of effort.

Mr. Piszkin provided OU-1 subcommittee chairman Don Zweifel with a copy of the quarterly groundwater monitoring report for subcommittee review.

### **Early Actions (Landfills - Sites 2 and 17) Slide Show - Bill Sedlak**

Mr. Sedlak's presentation focused on the early interim actions being planned for Site 2, Magazine Road Landfill, and for Site 17, the Communication Station Landfill.

Tasks at these areas include:

1. Installing security fencing to minimize illegal dumping and eliminate unauthorized access (joggers, pet walkers, horseback riders, etc.);
2. Removing debris from stream channels downstream;
3. Protecting streambanks from further erosion; and
4. Preventing water from Borrego Canyon Wash from entering the landfills.

The team is working with regulatory agencies to minimize effects to the gnatcatcher (an endangered species) and the coastal sage, part of the gnatcatcher's habitat. Additionally,

Borrego Canyon Wash runs through Site 2, and future road improvements may affect what can be done at the landfill sites.

Mr. Sedlak presented slides of Site 2 that showed the damaging effects to the landfill areas that are occurring from surface water flows and erosion. He explained that the landfill is at a low point in the wash, because in the 1940s and 1950s, it was standard practice to locate landfills at the lowest elevations in an area.

The Site 17 landfill is located one canyon beyond the Borrego Canyon Wash. Slides showed an access road, surface debris, and a steep embankment. One area has suffered collapses as a result of severe erosion.

RAB members asked about the content of storage drums in the landfill, and whether the drums leaked chemicals into the soil. Mr. Sedlak replied that most drum materials at the landfill were crushed, thus, the slides show only the drum remnants. Specific contents of what was originally contained in the drums is not known. Mr. Joyce added that the Draft Remedial Investigation (RI) Report for Site 17 is available in the Information Repository at Heritage Park Regional Library, and will be discussed at an upcoming RAB meeting.

RAB members expressed concern regarding management of surface water flows, erosion, and contents deposited in Borrego Canyon Wash from areas upgradient of the station, at the landfill on-station, and downgradient of the station. Mr. Joyce stated that whatever flows through Borrego Canyon Wash comes from areas upgradient of the landfill (such as Foothill Ranch and Portola Hills) as well as MCAS El Toro. Mr. Christopher Crompton, RAB member, added that before Foothill Ranch was developed, the wash was wide in some spots but it appears to be larger now. Causes may include major storms, agricultural use, and real estate development. The Marine Corps/Navy is working with the Orange County Environmental Management Agency's Public Works Flood Program Division to make sure that on-station and off-station projects are compatible in the flood-control arena.

**Regulatory Agency Comment Update - Bonnie Arthur, U.S. EPA and Tayseer Mahmoud, California Environmental Protection Agency (Cal-EPA) Department of Toxic Substances Control**

Mr. Joyce introduced Mr. Tayseer Mahmoud from Cal-EPA's Department of Toxic Substances Control, who is replacing Mr. Juan Jimenez on the MCAS El Toro BRAC Cleanup Team (BCT).

Ms. Arthur reported that the Site 24 Draft Remedial Investigation (RI) Report had limited agency comments because the Marine Corps/Navy and contractors worked closely with regulators, meeting weekly to collaborate on sampling decisions. She offered copies of her comments to attendees, and said that additional copies were available from her office.

Additional documents currently under review by the agencies are:

- Draft Work Plan for Soil Vapor Extraction Pilot Testing, Site 24
- First Quarter 1996 Groundwater Monitoring Report
- Draft Vacuum Assisted and Conventional Groundwater Extraction Pilot Study Work Plan, Site 2
- Draft RI Reports for Sites 2 and 17 Landfills
- Draft RI Reports for Sites 3 and 5 Landfills

Ms. Arthur added that if RAB subcommittee members need help reviewing a particular document, regulators are available to provide technical clarification. She added that MCAS El Toro is scheduled to sign its first Record of Decision (ROD) later this year, and several more in 1997. She specifically referred to RODs for Operable Unit (OU) 1 and the OU-2 subunits - OU-2A, OU-2B, and OU-2C.

## MEETING EVALUATION

One member observed that the strictly enforced, time-limited format of the meeting was helpful in guiding presentations and discussions toward the most important points. Others commented that the room setup worked well, and that the presentations were not overly technical but still informative. The slide presentation was also well-received.

For future meetings, several members requested cost information (estimates, projected costs, funds spent to date) for technologies and projects discussed. Others asked for the names of public officials to write to concerning the potential reduction in RAB funding. Ms. Cohn suggested that the RAB skip a meeting in either July or August because summer turnout is usually low. She would like to poll members at the May meeting to see which month they prefer not to meet.

## FUTURE MEETING DATE AND LOCATION

The next RAB meeting is scheduled for Wednesday, 29 May, 1996 at the City of Irvine, Conference and Training Center, at 6:30 p.m.

### Attachments:

- Sign-in sheets

### Handouts provided at the meeting and available at the Information Repository:

- RAB meeting agenda
- RAB meeting minutes - February 28, 1996 meeting
- "Blue Sheet" - Revised MCAS El Toro RAB Major Document Release and Review Dates, revised 2/27/96
- Presentation - *In situ* Air Sparging for Groundwater Cleanup
- Presentation - Tank 398 Site Update
- Presentation - Groundwater Sampling, Results 1st Quarter Sampling 1996
- U.S. EPA comments on "Draft Phase II RI Report, OU-2A, Site 24"
- Cal-EPA, DTSC comments on "Draft Phase II RI Report, OU-2A, Site 24"

MCAS El Toro RAB Mailing List - 21 MAY 1990 MAILING: ① Draft Agenda ② Public Notice Meeting Announcement  
③ 24 April 1990 RAB meeting minutes

Environmental Covergence  
P.O. Box 2010  
Irvine, CA 90274

Remedial Action Corporation  
505 North Tustin Avenue  
Santa Ana, CA 92705

Larry Agran  
Attorney at Law  
14978 Sand Canyon Avenue, Suite A  
Irvine, CA 92718

Bob Allen  
Orange County Health Care Agency  
Hazardous Waste Specialist  
2009 East Edinger Avenue  
Santa Ana, CA 92705-4710

Bonnie Arthur  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street, H-9-2  
San Francisco, CA 94105

Col. Joseph Barney  
22171 Timberline Way  
El Toro, CA 92630

Captain Brad Bartelt  
COMCABWEST, Code 1AS  
MCAS El Toro  
P.O. Box 95001  
Santa Ana, CA 92709-5001

Dr. Charles Bennett, Ph.D.  
224 Jacaranda Street  
Fullerton, CA 92632

Supervisor Marian Bergeson  
Orange County, District 5  
P.O. Box 687  
Santa Ana, CA 92702-0687

Jim Bieber, Legislative Assistant  
State Assemblyman Mickey Conroy  
1940 N. Tustin Street, #102  
Orange, CA 92665

Mr. Roger Boehringer  
6575 E. Fordham Circle  
Anaheim, CA 92807

Paul Brady, Jr.  
City of Irvine  
City Manager  
One Civic Center Plaza  
Irvine, CA 92714

Thomas Brennan  
Tustin Chamber of Commerce  
Executive Manager  
399 El Camino Real  
Tustin, CA 92666

Assemblywoman Marilyn Brewer  
California State Legislature  
(R-70)  
18952 MacArthur Blvd., Suite 220  
Irvine, CA 92715

George Britton  
Environmental Management Agency  
County of Orange  
300 N. Flower Street  
Santa Ana, CA 92701

Ms. Maureen Cavin  
League of California Cities  
Orange County Division  
600 W. Santa Ana Blvd., Suite 214  
Santa Ana, CA 92701

Nancy Cervini  
Windwood Townhomes  
380 Deerfield Drive  
Irvine, CA 92714

Desire Chandler, BEC  
MCAS Tustin  
Command Headquarters - Bldg 4  
P.O. Box 105001  
Santa Ana, CA 92710-5001

Doug Childers  
15520 Rockfield Blvd., Suite E-1  
Irvine, CA 92718

Mr. Frank Cooper  
7772 Sailboat Circle  
Huntington Beach, CA 92648

Keith Costello  
2 Carlton  
Irvine, CA 92720

Chris Crompton, Manager  
Orange County Environmental  
Management Agency  
10852 Douglass Road  
Anaheim, CA 92806

Bill Culbertson  
Irvine Chamber of Commerce  
17755 Sky Park West, Suite 101  
Irvine, CA 92714

George DaCorte  
1513 W. Carriage Dr.  
Santa Ana, CA 92704

Jane DeFidibus  
P.O. Box 2010  
Rancho Palos Verdes, CA 90274

Jane Dong  
Orange Co. Health Care Agency  
2009 East Edinger Avenue  
Santa Ana, CA 92705

Mr. Phillip Dyck  
CODE ENV  
Naval Training Center  
33502 Decatur Road, Suite 120  
San Diego, CA 92133-1449

David Ellis  
1301 Dove Street, #710  
Newport Beach, CA 92660

Mr. Frazer Felter  
U.S. Environmental Protection Agency  
75 Hawthorne Street, H-1-1  
San Francisco, CA 94105

Lynn Fillman  
Vice President, Administration & Sales  
Santa Ana Chamber  
P.O. Box 205  
Santa Ana, CA 92702

John Forti  
P.O. Box 50594  
Irvine, CA 92619

Dina Gartland, Staff Assistant  
Representative Christopher Cox  
4000 MacArthur Blvd.  
East Tower, Suite 430  
Newport Beach, CA 92660

Enid Cohn  
4472 Walnut Avenue  
Irvine, CA 92714

Mr. Gary Halbert  
133 Shorebreaker Drive  
Laguna Niguel, CA 92677

Mr. Roger Hall  
College Park Board of Directors  
14906 Elm Avenue  
Irvine, CA 92714

Tyrone H. Hall  
14141 Chagall Avenue  
Irvine, CA 92714

Daryl Halls  
League of California Cities, Orange County Division  
Policy Development/Legis. Svcs  
600 West Santa Ana Boulevard, Suite 214  
Santa Ana, CA 92701

Finola Hayes  
4500 Campus Drive, Suite 628C  
Newport Beach, CA 92660

Roy Herndon  
Orange County Water District  
10500 Ellis Avenue  
Fountain Valley, CA 92728-8300

Peter Hersh  
City of Irvine  
P.O. Box 19575  
Irvine, CA 92713

Evelyn Hintze  
League of Women Voters of Orange Co.  
632 B Avenida Sevilla  
Leisure World, CA 92660

Mr. Chi Huang  
P.O. Box 4258  
Irvine, CA 92716-4258

Gregory F. Hurley, Esq.  
8001 Irvine Center Drive  
Suite 900  
Irvine, CA 92718

Dr. Paul Hurt  
21412 Calle Sendero  
Lake Forest, CA 92630

State Senator Rob Hurtt (R-34)  
California Senate, 34th District  
11642 Knott Street, Suite 8  
Garden Grove, CA 92641

Novel James  
9 Richmond Street  
Irvine, CA 92720

Robert James  
U.S. Fish and Wildlife Service  
2730 Avenue West  
Carlsbad, CA 92008

Mike Johnston  
16 Riverstone  
Irvine, CA 92714

Joseph Joyce  
MCAS El Toro, Commanding General  
AC/S, Environmental (1AU)  
P.O. Box 95001  
Santa Ana, CA 92709-5001

Rita Kalwani  
92 Corporate Park, Suite C-310  
Irvine, CA 92714

Scott Kehe  
Officer in Charge of Construction  
MCAS El Toro (Bldg T2006)  
P.O. Box 94004  
Santa Ana, CA 92709-4004

G.P. Kirchgessner  
3486 Eboe Street  
Irvine, CA 92714

Dr. Stephen S. Koenigsberg  
1 Gold Bluff  
Irvine, CA 92715

Jeffrey Koepke, Ph.D.  
6421 E Kings Crown Road  
Orange, CA 92669

Susan Lamoureux  
14 Rimrock  
Irvine, CA 92715

Lorrie Landis  
21405 Brookhurst Street  
Suite 450  
Huntington, CA 92646

Don MacLean  
P&D Environmental  
1100 Town and Country Road, #300  
Orange, CA 92668

Tayseer Mahmoud  
California Environmental Protection Agency  
Department of Toxic Substances Control  
245 West Broadway, Suite 350  
Long Beach, CA 90802-4444

Michael E. Manning  
5061 West Knoll Drive  
Yorba Linda, CA 92686-4316

Mary Aileen Matheis  
73 Nighthawk  
Irvine, CA 92714

Thomas B. Mathews  
Director of Planning, County of Orange  
Environmental Management Agency  
300 N. Flower Street  
Santa Ana, CA 92702-4048

Jill McKenna  
Bechtel National, Inc.  
c/o Denise Knowles  
Brown & Caldwell  
16735 Von Karman Ave., Suite 200  
Irvine, CA 92714

Robert R. McVicker  
Irvine Ranch Water District  
P.O. Box 57000  
Irvine, CA 92619-7000

Frank Mead  
4100 Newport Place, Suite 800  
Newport Beach, CA 92660

Joan Medina  
CET Environmental Services, Inc.  
14761 Bentley Circle  
Tustin, CA 92680

Fred Meier  
1517 E. Beechwood Street  
Santa Ana, CA 92705-6906

Dominic Meo III, P.E.  
1807 Tradewinds Lane  
Newport Beach, CA 92660

Robert E. Merryman, Director  
Orange County Health Care Agency  
Environmental Health Division  
2009 E. Edinger Avenue  
Santa Ana, CA 92705-4720

Tim Merwin  
Aviation Program Manager  
Southern California Association of Government  
818 West 7th Street, 12 Floor  
Los Angeles, CA 90017

Mr. Michael Metzler  
Santa Ana Chamber  
Executive Director  
P.O. Box 205  
Santa Ana, CA 92702

Marsha Mingay, Public Participation Specialist  
California Environmental Protection Agency  
Department of Toxic Substances Control  
245 West Broadway, Suite 425  
Long Beach, CA 90802-4444

Ken Moore  
Orange County Chamber of Commerce & Indus  
Executive Director  
One City Boulevard West, Suite 401  
Orange, CA 92668

Jim Morrissey, Assemblyman, 69th District  
California Legislature  
930 West 17th Street, Suite C  
Santa Ana, CA 92706

Mr. Dan Mountford  
6490 Via Corral  
Anaheim, CA 92807

Mr. Don Murphy  
26 Pebblewood  
Irvine, CA 92714

Tom & Barbara Nash  
33 Hermosa  
Irvine, CA 92720

Mary Lynn Norby  
14512 Emerywood Road  
Tustin, CA 92680

Christine O'Connor, CEO  
Conner Construction Mgmt, Inc.  
19600 Fairchild, Suite 300  
Irvine, CA 92715

Mr. A. Richard D. Olquin  
9 Breakers Lane  
Aliso Viejo, CA 92656

Dean Polhamus  
4885 Royce Road  
Irvine, CA 92715

Mike Potts  
LA/O.C. Building Trades Council  
1626 Beverly Blvd.  
Los Angeles, CA 90026

Mark Pulone  
23778 Mercury Road  
Lake Forest, CA 92630

Thomas Reiff  
362 Santa Isabel Ave.  
Costa Mesa, CA 92677

Ken Riley  
One Tambour Place  
Foothill Ranch, CA 92610

Col. E. J. Ritchie, Base Transition Coord.  
COMCABWEST  
AC/S, BRAC, 1AS  
P.O. Box 95001  
Santa Ana, CA 92709-5001

Marcia Rudolph  
MCAS El Toro RAB  
Community Cochair  
24922 Muirlands - #139  
Lake Forest, CA 92630

Vaughn Sarkisian  
10572 Potter Circle  
Villa Park, CA 92667

Bill Sedlak  
OHM Remediation Services Corp.  
2031 Main Street  
Irvine, CA 92714-6509

Doyle Selden  
Taxpayers for Responsible Planning  
3139A Via Vista  
Laguna Hills, CA 92653-2733

Steven Sharp  
County of Orange  
Environmental Health Division  
Solid Waste Local Enforcement Agency  
2009 E. Edinger Avenue  
Santa Ana, CA 92705

Maria Shayegan  
6 Yorktown  
Irvine, CA 92720

Larry Sievers  
6 La Cincha  
Rancho Santa Margarita, CA 92688

Supervisor Jim Silva  
Code 023  
P.O. Box 687  
Santa Ana, CA 92702-0687

Mr. Myron L. Sipp, Jr.  
92 Sandcastle  
Aliso Viejo, CA 92656

Edward Sirota  
505 N. Tustin Avenue, Suite 210  
Santa Ana, CA 92705

Gregg Smith, Field Representative  
Office of Congressman Robert Dornan  
300 Plaza Alicante, Suite 360  
Garden Grove, CA 92640

Bob Snell  
Irvine Ranch Water District  
P.O. Box 57000  
Irvine, CA 92619-7000

Arlene Z. Sontag  
Orange County Fire Authority  
Legislative Analyst  
P.O. Box 86  
Orange, CA 92666

Jacalyn Spizman, Ph.D.  
Orange County Permit Assistance Center  
300 N. Flower Avenue, First Floor  
Santa Ana, CA 92703

Supervisor Roger R. Stanton  
Orange County, District 1  
P.O. Box 687  
Santa Ana, CA 92702-0687

Supervisor William G. Steiner  
Orange County, District 3  
P.O. Box 687  
Santa Ana, CA 92702-0687

Mr. Sat Tamaribuchi  
The Irvine Company  
550 Newport Center Dr., 8th Floor  
Newport Beach, CA 92660

Marilyn Thorns  
Hydro-Search  
3150 Bristol Street, Suite 500  
Costa Mesa, CA 92626

Keith Tierman  
Naval Training Center  
Code ENV  
33502 Decatur, Suite 120  
San Diego, CA 92133-1449

Joey Tucker  
76 West Yale Loop  
Irvine, CA 92714

Tom Tuller, Safety Officer  
Saddleback Valley Unified School District  
25631 Diseno Drive  
Mission Viejo, CA 92691

Conrad Tuohey  
Attention: Cara  
8001 Irvine Center Drive, Suite 1000  
Irvine, CA 92718-2996

Barbara Vasquez  
232 Buttonwood  
Brea, CA 92691

Supervisor Gaddi H. Vasquez  
Orange County, District 3  
P.O. Box 687  
Santa Ana, CA 92702-0687

Ms. Holly Veale  
Assistant to Marian Bergeson  
Orange County Supervisory, District 5  
P.O. Box 687  
Santa Ana, CA 92702-0687

Larry Vitale  
Santa Ana RWQCB  
2010 Iowa Avenue, Suite 100  
Riverside, CA 92507-2409

Lee Wain  
Saddleback College  
28000 Marguerite Pkwy.  
Mission Viejo, CA 92692

Michael Ward, Mayor  
City of Irvine  
P.O. Box 19575  
Irvine, CA 92713

Mr. Kirk Watilo  
Professional Community Management Inc.  
Community and Government Relations  
P.O. Box 2220  
Laguna Hills, CA 92654

Jim Werkmeister  
OHM Remediation Services Corp.  
2031 Main Street  
Irvine, CA 92714-6509

Jerry Werner  
2391 Via Mariposa #1D  
Laguna Hills, CA 92653-2016

John Westermeier  
7840 E. Walnut Ridge Road  
Orange, CA 92669

Charly Wiemert  
AC/S Environmental (1AU)  
MCAS El Toro  
P.O. Box 95001  
Santa Ana, CA 92709-5001

Bob Woodings  
Director of Public Works  
City of Lake Forest  
23778 Mercury Road  
Lake Forest, CA 92630

Donald Zweifel  
2110 W. Larkspur Drive  
Orange, CA 92667