

ATTACHMENTS

1/31/96

RESTORATION ADVISORY BOARD MEETING DRAFT MEETING MINUTES

- Sign-in sheets
- Proposed changes to MCAS El Toro Installation Restoration Program/Restoration Advisory Board (RAB) "Mission Statement and Operating Procedures"
- Corrections to 11/30/95 RAB meeting minutes, corrected and approved at 1/31/96 RAB meeting

**MCAS EL JORO
RESTORATION ADVISORY BOARD MEETING
January 31, 1996**

RAB MEMBER SIGN-IN SHEET

Name	Signature	Name	Signature
Arthur, Bonnie	<i>Bonnie Arthur</i>	Lamourex, Susan	
Allen, Bob	<i>Donald L. Schaffer - Representing</i>	Landis, Lorrie	
Barney, Col. Joseph P. (ret)		Matheis, Mary Aileen	
Bennett, Dr. Charles	<i>Chas. Bennett</i>	Mathews, Thomas	<i>Thomas B. Mathews</i>
Boehringer, Roger		McVicker, Robert R.	<i>Robert McVicker</i>
Brady Jr., Paul		Meier, Fred J.	<i>Fred J. Meier</i>
Britton, George		Merryman, Robert	<i>Donald L. Schaffer - Representing</i>
Cohn-Gary, Enid	<i>Enid Cohn-Gary</i>	Mingay, Marsha	
Cooper, Frank		Mountford, Dan	<i>Dan Mountford for</i>
Crompton, Chris		Murphy, Don	<i>Don Murphy</i>
DaCorte, George F.		Olquin, A. Richard	
Ealter, Fraser		Ritchie, Col. E.J.	<i>Major A. Baynard for Col Ritchie</i>
Halbert, Gary J.		Rudolph, Marcia - Co-chair	<i>(present)</i>
Hayes, Finola		Shayegan, Maria	<i>Maria J. Shayegan</i>
Herndon, Roy		Sievers, Larry	
Huang, Chi	<i>Chi Huang</i>	Sipp, Jr., Myron L.	<i>Myron L. Sipp Jr.</i>
Hurley, Gregory	<i>Gregory Hurley</i>	Vasquez, Barbara	
Hersh, Peter	<i>For Daniel Jung</i>	Vitale, Larry	<i>Mike Adackapara for</i>
Hurt, Dr. Paul R.		Wagner, Jack	
James, Novel B.		Werner, Jerry B.	
Jimenez, Juan	<i>Juan Jimenez</i>	Westemeier, John F.	
Joyce, Joseph - Co-chair	<i>Joseph Joyce</i>	Woodings, Bob	<i>Bob Woodings</i>
Kalwani, Rita		Zweifel, Donald E.	<i>(present)</i>
Koenigsberg, Dr. Stephen S.	<i>Stephen Koenigsberg</i>		

**MCAS EL TORO
RESTORATION ADVISORY BOARD MEETING
January 31, 1996**

**NON-RAB MEMBER SIGN-IN SHEET
Other Attendees**

NAME	AFFILIATION	MAILING ADDRESS	PHONE FAX	INTERESTED IN RAB MEMBERSHIP?
JACKIE SPISZMAN	Orange County Permit Assistance Center	300 N. Flower St, First Floor Santa Ana CA 92703	(714) 834-2908 834-2764	X
ANDY PISZKIN	NAVY SOUTHWEST DIV	1220 PACIFIC HWY SAN DIEGO CA 92136	619-532-2611 - 2464	
Bruce Bartelt	CAPT, USMC RETIRED	MEATS RL TOW	714-726-3853 714-726-3814	
Desire Chandler	NAVY S.W. DIV		714 726 5832	
Mary Lynn Nozzy	Norla, Consulting	P.O. Box 162	714) 832-4678	X
PANA SAKAMOTO	NAVY S.W. DIV	1220 PACIFIC HWY SAN DIEGO 92132	417-532-2570	
Mike Ryan	DMAS	444 Camino Del Rio S. #110 San Diego CA 92108	619 298-8671 Fax 619 497-3147	
Ryan Kelly	concerned citizen	24676 Priscilla Pr. Dana Point, CA 92629	489-0067 (714)	

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NON-RAB MEMBER SIGN-IN SHEET
Other Attendees

NAME	AFFILIATION	MAILING ADDRESS	PHONE FAX	INTERESTED IN RAB MEMBERSHIP?
VISH PARIANI	MCASEL TORO	MCAS ELTORO - 92709	714-726-3386 714-726-6586	
Theodoris Bousard	SWDIV MCAS EL TORO		619-532-3803	
DANTE TEDANO?	CLEANTE	S.D. CA BNI call	619 607 8780	
Tanya Herbert	Student Student @ San Dieguito College	San Juan		
Edward Rumsey	MCAS El Toro	RE 12 Aloysia RSM 92688	726-2270 726-2449	NO
Mike Adackapara	Regional Water QC BOARD	3737 main st Riverside	909-782-3238	-
KRISTINA ZORTMAN	HERTMAN PROFS.	9601 Wilshire #200 Beverly Hills 90210	310/2857243	
G.P. Kirchgesner	NIVA	3486 EBOE ST IRVINE 92714	714 552-3548	

**MCAS EL TORO
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**NON-RAB MEMBER SIGN-IN SHEET
Other Attendees**

NAME	AFFILIATION	MAILING ADDRESS	PHONE FAX	INTERESTED IN RAB MEMBERSHIP?
<i>Sherrill Beard</i>	<i>DTSC</i>		<i>(310) 590-4945</i>	<i>NO</i>
<i>Sherrill Beard</i>	<i>DTSC</i>		<i>(310) 590-5528</i>	<i>NO</i>
<i>Craig Carlisle</i>	<i>Bechtel</i>		<i>(619) 687-8804</i>	<i>NA</i>
<i>Fraser Felton</i>	<i>USEPA</i>			
<i>Dina Grantland</i>	<i>Cong. Col.</i>		<i>756 2244</i>	
<i>GREG BRENDEN</i>	<i>EARTH TECH</i>	<i>2121 Affan Parkway Suite 100 IRVINE, CA 92714</i>	<i>(714) FAX-1557 724-1776 ext 231</i>	<i>Send Info</i>
<i>PAUL KENNEDY</i>	<i>NAVY</i>	<i>1220 PACIFIC HWY (CODE 0233) SAN DIEGO CA 92132-5187</i>	<i>619-532-1939</i>	<i>NO.</i>
<i>GOELG SMITH</i>	<i>CONG - DENVER</i>			

**MCAS EL JORO
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Other Attendees**

NAME	AFFILIATION	MAILING ADDRESS	PHONE FAX	INTERESTED IN RAB MEMBERSHIP?
Charly Weimert	IRP MCAS El Joro	MCAS El Joro	(714) 726-2840 FAX 726-6586	
David Cowser	Clean II	401 West A Street San Diego Ca.	619 687 8802 619 687 8787	
Jane Diamond	U.S. EPA	75 Hawthorne St (H-9-2) San Francisco CA 94105	415/744-2384 -1916	
Dimitri Hallenbach	CLEAN II	401 West A St #1000 San Diego CA 92101	619 687 8855 " 687 8787	
Jim Jung	DTSC	245 W. Broadway Long Beach CA	310 590 4919 590 4952	
Tayseer Mahmoud	DTSC	245 W. Broadway Long Beach	310 590 - 4891 (310) 590-4932	
John Scandura	DTSC	"	(310) 590-4856	
Lynn Mandelweber	Navy		619 532 3737 619 532 2467	

*****PROPOSED CHANGES*****

to

**Marine Corps Air Station El Toro
Installation Restoration Program/Restoration Advisory Board (RAB)
"Mission Statement and Operating Procedures"**

Submitted by: Joseph Joyce, BRAC, BEC, RAB Co-chair
Marcia Rudolph, Community, Co-chair

**EXISTING TEXT IS LISTED FIRST, PROPOSED CHANGE IS LISTED SECOND WITH
* IN SEMI-CAPS/**INDICATES ADDITION OF A NEW STATEMENT**

III. Operating Procedures Page (1)

A. Membership

3. Members are expected to attend all RAB meetings and fulfill member responsibilities. If a member fails to attend two consecutive meetings, or fulfill member responsibilities, the RAB co-chairs may ask the member to resign.

*3. If a member fails to attend two consecutive meetings **WITHOUT CONTACTING THE RAB, OR AT LEAST ONE OF THE RAB CO-CHAIRS**, or fulfill member responsibilities **INCLUDING INVOLVEMENT IN A SUB-COMMITTEE**, the RAB co-chairs may ask the member to resign.

6. Open application for RAB membership vacancies will take place once a year. This process will begin September 1, 1995. Applications will be reviewed and approved by Remedial Project Managers from USMC, USEPA, and DTSC. The candidates will be notified of their selection by October 30.

* 6. **APPLICATION FOR RAB MEMBERSHIP VACANCIES SHALL TAKE PLACE AS SUCH VACANCIES OCCUR.** Applications will be reviewed and approved by the BEC, USMC, USEPA, and DTSC **ALONG WITH CONSULTATION WITH THE COMMUNITY CO-CHAIR.** Candidates will be notified of their selection **IN A TIMELY MANNER.**

RAB Membership Responsibilities Page (2)

a. Review, evaluate, and comment on technical documents and other material related to installation cleanup; all assigned tasks are to be completed in the time assigned.

*a. **ACTIVELY PARTICIPATE IN A SUB-COMMITTEE AND** review, evaluate, and comment on technical documents and other material related to installation cleanup, all assigned tasks are to be completed **WITHIN THE DESIGNATED DEADLINE DATE.**

The next statement would be added under a new subtitle "Subcommittees" on page (3), somewhere after number 7.

Subcommittees

* *.g. **SUBCOMMITTEES MAY REQUEST THE PARTICIPATION, INVOLVEMENT, AND OR ADVISE OF REGULATORY AGENCY MEMBERS.**

Mr. Piszkin showed slides of the shallow groundwater and principal aquifer that make up the area of OU-1. It is a defused, low concentration plume that extends about 3 miles from the VOC Source Area. The primary contaminant of concern is TCE. In the shallow groundwater, TCE has been detected at up to ~~30~~ **2000** parts per billion (ppb); the deep aquifer has a range of TCE concentrations from 5 to 50 ppb with an average *maximum* concentration of 34-37 ppb. Portions of the deep aquifer serve as a source for the local irrigation and reclaimed water systems.

Mr. Piszkin explained the goals of the Interim Action for OU-1: minimize VOC contamination in the groundwater; prevent human exposure to the contamination; and keep it contained so no further spreading occurs. In addition, cleanup actions eventually selected for the VOC Source Area (OU-2A) are expected to eliminate or significantly reduce migration of contamination into the plume making up the OU-1 area.

The general FS process was outlined including the evaluation of potential remedial alternatives and the supporting an informed risk management decision on a cleanup method. Mr. Piszkin stated that EPA guidance helps make these efforts consistent and the MCAS El Toro team is following the guidance, even though it is not mandatory. He then outlined the nine U.S. EPA Evaluation Criteria for remedial alternatives. He explained that the current effort is considered "interim" because it only addresses VOCs in the specific area. If it is determined later that more than VOCs need to be addressed in the regional area, other cleanup actions will be evaluated. If not, then most likely "no further action" reports will be prepared for the regional contaminated groundwater plume area. Groundwater cleanup plans for other areas and other contaminants around the station are actively being developed with the VOC Source Area (Site 24) as a high priority.

Mr. Piszkin discussed possible alternatives to remediating the large, deep diffused plume. Before the Orange County Water District's Irvine Desalter Project was delayed in late 1994, every alternative (9/94 IAFS) that was studied in full detail depended on the desalter; therefore, the FS was expanded to its current form. Additional joint projects and several Department of the Navy (DON) stand-alone projects were explored further. A handout (OU-1 IAFS Draft Report Executive Summary Table 1) provided by Mr. Piszkin summarized the 12 alternatives that were evaluated. The alternatives were evaluated for their implementability, technical effectiveness, and cost effectiveness for addressing VOC contamination in the shallow groundwater unit and the principal aquifer. Another handout detailed the screening of the 12 alternatives. He then presented further details on the two alternatives, Alternative 2A (DON stand-alone) and Alternative 6A (a joint Department of the Navy/Orange County Water District project), currently seen as the front runners by the Marine Corps/Navy. These two alternatives have emerged as the best candidates from the standpoints of technical effectiveness and cost effectiveness. A handout that presents schematic drawings of these two alternatives was also provided.

NOTE: CHANGES (ADDITIONS, DELETIONS) ARE SHOWN IN BOLD ITALIC TYPEFACE

Meeting Minutes
11/30/95 MCAS El Toro RAB Meeting
min1130.doc

MARINE CORPS AIR STATION EL TORO
RESTORATION ADVISORY BOARD MEETING

31 JANUARY, 1996

DRAFT MEETING MINUTES

A Restoration Advisory Board (RAB) meeting for Marine Corps Air Station (MCAS) El Toro was held Wednesday, 31 January at the Irvine City Hall, Conference and Training Center. The meeting began at 6:45 p.m. These minutes summarize the discussions and presentations from this meeting.

WELCOME, INTRODUCTIONS, AGENDA REVIEW

Mr. Joseph Joyce, Marine Corps/Navy RAB Cochair, opened the meeting and reminded everyone to sign in. All attendees introduced themselves. Mr. Joyce added one item to the published agenda: Mr. Tom Mathews, Director of Planning for the Orange County Environmental Management Agency, will present an update on the Orange County-led reuse planning process for MCAS El Toro. Mr. Joyce also announced that station tours of the Installation Restoration Program sites will be held on Friday and Saturday, February 23 and 24 from 10:00 a.m. to noon. Those interested in participating must respond by February 21 to Mr. Vish Parpiani at 714-726-3866.

Ms. Marcia Rudolph, Community Cochair, reminded attendees that the RAB's function is advisory. She complimented the subcommittee that recently reviewed the Draft Final Updated Community Relations Plan and that four of the six subcommittee members provided comments.

Approval of 30 November, 1995 Meeting Minutes

The minutes of the 30 November, 1995 meeting were approved with changes requested by Mr. Andy Piszkin, Remedial Project Manager, Southwest Division Naval Facilities Engineering Command, in regards to the concentrations of trichloroethylene (TCE), the primary contaminant of concern in the shallow groundwater aquifer and the deeper aquifer in the off-station area that makes up Operable Unit 1.

Proposed Changes: RAB Rules of Operation for Member Vacancies, Recruitment and Subcommittee Participation

Ms. Rudolph discussed proposed changes to the RAB's Mission Statement and Operating Procedures. Ms. Enid Cohn asked if guidelines were used for considering RAB applications or if all applicants were accepted. Some members suggested that first

priority be given to applicants from communities that adjoin the base and are affected by base environmental activities. While there is no current guideline, Ms. Rudolph encouraged Ms. Cohn to submit a written suggestion for this change. Mr. Joseph added that members are selected by a group of agency and military staff members in consultation with the Community Cochair. While all applicants were previously accepted, new applications will have to undergo consideration to keep the Board's size manageable. The proposed changes as presented in the meeting handout were approved by the RAB.

NEW BUSINESS

Environmental Investigations Status Report: Operable Unit 3, Field Investigation and Sampling Activities - Craig Carlisle, CLEAN II

Mr. Joyce introduced Mr. Craig Carlisle, a CLEAN II geologist, who discussed the status of field work for Operable Unit (OU) 3.

Mr. Carlisle explained that three operable units were developed to more effectively manage environmental investigation and cleanup areas at MCAS El Toro. OU-1 involves regional groundwater contamination migrating off-station, OU-2 encompasses sites that may be potential source areas for off-site groundwater contamination. OU-3 is defined as sites that are considered soil surface contamination and not a threat to groundwater. The current field efforts supplement sampling completed for the Phase I Remedial Investigation effort conducted by the CLEAN I consultant. Some OU-3 sites are: Site 1, the explosive ordnance disposal range, where explosive residuals may be detected; Site 9, the crash crew pit, a possible location for fuels left from fire fighting training; Site 12, the sludge drying beds from the sewer system; and Site 20, the Hobby Shop that is used by military personnel to service privately owned vehicles and change automotive oil and other fluids.

Mr. Carlisle explained the planned sampling activities which started in mid-December. Additional details are available in the handout provided at the meeting. Most samples will be extracted from the top 10 feet of soil; if contaminants are not detected, there will be no reason to go deeper because most contamination is from surface releases. Approximately thirty 10-foot borings have been completed. In addition, approximately 150 shallow soil borings will be drilled to 10 feet. The team will also monitor groundwater at Site 1. Each site is divided into units: each unit will have three borings in addition to the earlier Phase I borings. He then showed slides of the sampling equipment and activities at various OU-3 sites to help RAB members better understand current sampling techniques and procedures. Mr. Carlisle suggested that the mechanics of field sampling might be a suitable topic for a subcommittee meeting or an upcoming RAB meeting.

A RAB member asked if the soil samples are large enough for an accurate judgment about contamination. Mr. Carlisle responded that the laboratories need only a few

hundred grams of soil for analysis; and because multiple samples are used for each site, he is confident that enough soil is being sampled. He clarified that the sampling plan, which met Marine Corps/Navy and regulatory agency approval, provides for a sufficient number of samples to characterize OU-3 sites. Additionally, the RAB subcommittee reviewed the work plan that includes sampling locations for OU-3 sites.

Another member asked if the team has used the ROST system at OU-3. The ROST system, a commercially available vehicle-mounted instrumentation package to detect and measure total petroleum hydrocarbons (TPH) in soil. Mr. Carlisle said ROST would work well for screening TPH, but results would still need to be confirmed by fixed laboratory analysis. He added that chemicals of potential concern at MCAS El Toro include solvents, semivolatiles, and metals, and that ROST system would not be suitable for detecting them.

Community Relations Plan - Amy Schwartz, CLEAN II

Mr. Joyce introduced Ms. Schwartz, who leads the CLEAN II community relations effort. Her presentation summarized the Community Relations Plan (CRP) being prepared for final issue.

Ms. Schwartz offered a brief overview of community relations' program goals and activities. The primary goal is to involve the public in activities and decisions related to this Superfund site cleanup and the military's Installation Restoration Program. The CRP, designed specifically for MCAS El Toro, will be issued in final form within several weeks. Specific details about the community relations program and the development of the CRP are available in the handouts provided at the meeting.

In discussing community assessments, the foundation for an effective CRP, Ms. Schwartz explained that media coverage is often the most recognized barometer of community involvement and interest in a particular environmental activity. She added that a list of 28 community members and representatives were selected for community interviews based on the guidance provided in U.S. EPA's *Community Relations In Superfund: A Handbook*. The interview team included members from the Marine Corps/Navy, and California EPA-Department of Toxic Substances Control.

She provided a summary of the interview responses. Some respondents were not aware of the status of environmental activities at the base; and some expressed concern about the military's commitment to proper cleanup before reuse, particularly on the issue of funding. The interviews also indicated that environmental issues are not as great a concern in local communities as the reuse issues. Many respondents expressed cautious trust in the Marine Corps' commitment to clean up the base but were concerned about funding and contractor integrity. Congressional commitment is also of concern.

Areas for improvement in Marine Corps credibility and communication suggested by interviewees included: maintaining the environmental commitment after the Marines

leave the base; and having the Marine Corps build credibility through knowledge, including educating the media about environmental problems and proposed solutions. Many interviewees also asked for clarification on how environmental and reuse issues relate and influence one another. Many participants encouraged the interview team to continue communication with them; they viewed the interview as a “first step” in what they hoped would be a long, ongoing communication process.

Ms. Schwartz then explained that many community relations activities are driven by technical milestones (for example, completion of feasibility studies). Specifically, environmental laws require certain community relations activities (such as public notices and public meetings) when technical milestones are reached. She encouraged the community to invite Marine Corps/Navy speakers to address community-sponsored meetings and other events.

The CRP will be available at the Information Repository at the Heritage Park Library in Irvine. Those who would like a personal copy must request them from Mr. Joyce (714-726-3470) by February 16th so an appropriate number of copies can be printed. Appendix C to the CRP, a summary of the information obtained during the community interviews, was available as a handout.

Dr. Charles Bennett, RAB member, asked about the ratio of local residents to public officials and business owners contacted for participating in the interviews. Ms. Schwartz provided the following breakdown of individuals interviewed and the categories they fell into:

- environmental/special interest groups - 8 people
- businesses - 6 people
- elected officials - 7 people
- community-at-large - 4 people
- local and county representatives - 3 people

The list was finalized and approved by the Marine Corps and regulatory agencies.

Dr. Bennett then commented that approximately 90 percent of those interviewed had an economic or political interest. Ms. Schwartz replied that the EPA guidance was consulted in developing a list of people who represented very broad interests throughout the community. A good cross-section of individuals and groups representative of the affected communities, was achieved; so that special interest groups were not selected based on political or economic affiliation. Capt. Brad Bartelt, Public Affairs Officer for the Base Realignment and Closure Office, added that the categories are somewhat arbitrary: a member of an environmental/special interest group may also be a local resident, therefore, that individual is a stakeholder in two arenas. Similarly, an elected official or a business owner may also be a local resident and concerned from both professional and personal viewpoints.

Ms. Rudolph, who chairs the CRP subcommittee, shared several of that group's comments about the plan:

- While elected officials do represent certain people, if the interviews are redone later, the subcommittee would like to see more community-at-large interviewees.
- The subcommittee would like to see Aliso Viejo, Rancho Santa Margarita, and Foothill Ranch acknowledged as stakeholders.
- The subcommittee also suggested that the team include residents within 3 to 5 miles around the base in the next interviews.
- City council and planning commission meetings are often locally televised. The subcommittee suggests that these forums could serve as an excellent avenue for a 5 to 10 minute environmental update.
- The final concern was that maps should be more specific and show surrounding communities in better detail. Ms. Rudolph would like to see how various jurisdictional boundaries (city limits, school districts, water districts) overlay the base.

Regulatory Agency Comment Update: Operable Unit 1, Revised Draft Interim Action Feasibility Study for Regional Groundwater - Bonnie Arthur, U.S. Environmental Protection Agency and Juan Jimenez, California EPA-Department of Toxic Substances Control

Ms. Arthur, with assistance from an attorney and a geologist from U.S. EPA, reviewed the study and made their comments available to RAB members in a handout.

Ms. Arthur outlined the Remedial Investigation/Feasibility Study (RI/FS) process for the benefit of newcomers who may not have been familiar with it. In summary, the RI evaluates the extent of contamination and the FS evaluates the feasibility of cleanup alternatives based on U.S. EPA criteria. After a preferred cleanup action is selected, a Proposed Plan is prepared and made available for public comment. Following consideration of public comments, a final cleanup action is selected and a Record of Decision is signed. Detailed design then begins and the solution is implemented.

Operable Units (OUs), she said, divide large sites into manageable pieces. A feasibility study is then completed for each OU. As work progresses, an OU may be redefined. OU-1 now focuses on off-base regional groundwater contamination. On-base areas include possible source areas of groundwater contamination are addressed in OU-2. Cleaning up the high-contamination areas within the shallow aquifer is the highest priority, because the highest contamination levels at MCAS El Toro are in the shallowest groundwater near the source area. Next, Ms. Arthur explained the levels of trichloroethylene (TCE), an industrial solvent, detected by the Department of the Navy (DON) in OU-1 and the source area:

<u>Aquifer</u>	<u>TCE highest concentration</u>	<u>TCE drinking water standard</u>
Shallow (on-base)	3000 parts per billion (ppb)	5 ppb
Principal (off-base)	34 ppb	5 ppb

Drinking water standards are used for comparison. While this water is not presently used as drinking water, today's cleanup to these standards are considered protective of human health for future users.

Contaminants have been detected in the principal aquifer, and contractors are now collecting additional data as part of the quarterly groundwater monitoring program. Three multiport wells in an off-base area of the principal aquifer had detections of TCE above the drinking water standard during the first and second rounds of groundwater monitoring conducted by the DON.

To provide additional history regarding the feasibility study, Ms. Arthur outlined the proposed Irvine Desalter Project. In 1985, TCE was detected in off-base groundwater, so the Orange County Water District (OCWD) installed monitoring wells. The Marine Corps/Navy and OCWD began examining a shared desalter system. In September 1994, the first Draft Interim Action Feasibility Study included the desalter as a component of the cleanup alternatives evaluated. In these alternatives, the Marine Corps/Navy would treat the water to remove volatile organic compounds (VOCs), including TCE, to meet drinking water standards. Because the desalter was put on hold, pending negotiations with the Navy, the regulatory agencies asked the Marine Corps/Navy to develop other alternatives. Several new ones were proposed in the October 1995 Revised Draft Interim Action Feasibility Study, the subject of the current review cycle. Of the 12 alternatives that were evaluated for their implementability, technical effectiveness, and cost effectiveness for addressing VOC contamination in the shallow groundwater and the principal aquifer, two alternatives were considered front runners by the Marine Corps/Navy: Alternative 2A (DON stand-alone project) and Alternative 6A (a joint DON/OCWD project).

U.S. EPA's major comments in regard to the Revised Draft Interim Action Feasibility Study:

- If the desalter remains on hold, U.S. EPA is not satisfied with the Alternative 2A, the proposed DON stand-alone project;
- Alternative 2A, proposed for addressing the deep aquifer, has very low effectiveness: a 23% reduction in the size of the plume over 10 years and an approximate cost of \$25 million; and
- U.S. EPA agrees with the Marine Corps/Navy that some type of remedial action is warranted in both the shallow and principal aquifers. The Agency recommended that

the Marine Corps/Navy develop an additional alternative which focuses on active remediation (soil and groundwater) of the shallow aquifer and passive or limited remediation and long-term monitoring of the principal aquifer.

U.S. EPA's recommended alternative would get cleanup started in the form of containment wells near the most contaminated area in the shallow aquifer. For the principal aquifer, a passive or limited remediation, which typically includes some combination of institutional controls, wellhead treatment, containment, source control, dilution, volatilization and biological degradation, is recommended. Such an alternative would be developed and evaluated using the feasibility study criteria applied to the other alternatives previously evaluated.

She explained that EPA's recommendation is based on examining the effectiveness of the proposed alternatives in the Revised Draft Interim Action Feasibility Study as compared with other sites across the country, thus EPA has concluded that it is best to focus on the shallow aquifer. U.S. EPA proposed that the Marine Corps/Navy develop a new alternative to achieve cleanup goals. This would require additional groundwater modeling to evaluate whether the shallow water cleanup will keep contamination levels low in the deep aquifer. The new modeling would be used to develop a new alternative. She said the focus of such an alternative would be on hotspots in the shallow aquifer, use of long-term monitoring, and keeping the contaminated area from spreading. The evaluation would be documented and subject to additional regulatory agency review. This process includes review and comment opportunities for the public.

Mr. Jimenez, of the Department of Toxic Substances Control (DTSC), reiterated that remedial actions must focus on and start with the shallow (upper) aquifer. He said DTSC does not favor Alternative 2A proposed in the Revised Draft Interim Action Feasibility Study but DTSC could accept Alternative 6A. He said that DTSC believes a contingency is needed in case the desalter project does not occur.

Ms. Enid Cohn asked if any local or on-base aquifers will be listed in the State Regional Water Quality Control Board's new program of de-listing certain aquifers as potable water sources. Mike Adackapara, a representative from the State's Santa Ana Regional Water Quality Control Board office, answered that the program does not actually "pull out" aquifers from consideration as potable, but designates them as containment zones.

Another RAB member asked if the Marine Corps/Navy will fund the desalter project. Mr. Piszkin, Remedial Project Manager with the Southwest Division Naval Facilities Engineering Command, confirmed that funds have been offered by the Department of the Navy during ongoing negotiations with the Orange County Water District. RAB member Maria Shayegan asked if DTSC is still reconsidering its classification of TCE as a carcinogen. Mr. Jimenez responded that this re-evaluation is currently underway. In response to a question about whether containment wells are now in place, Ms. Arthur replied that the proposed 31 shallow extraction wells are also included in the OU-1 area in order to start the containment process. The Phase II investigation will provide

information necessary to place the wells. However, such wells would be placed under whichever operable unit (OU-1 or OU-2A) is implemented first.

Mr. Robert McVicker, RAB member representing the Irvine Ranch Water District, asked what the Marine Corps/Navy plans as its next step, and if this includes development and evaluation of another alternative. Mr. Piszkin replied that the Marine Corps/Navy may consider using existing wells along with examining one or two other alternatives. He said it is not yet known how much work or time would be required for developing a new alternative. The Federal Facilities Agreement will need to be extended if any new alternatives are examined. Public comment also needs to be obtained and considered.

To help RAB members better understand why investigation areas are divided up into specific operable units, Mr. Piszkin outlined five points distinguishing OU-1 from OU-2A:

1. The principal aquifer is off-station (OU-1); the Marine Corps/Navy wants to remediate the contamination early, and OU-1 data is two years ahead of OU-2A data for on-station contamination.
2. OU-1 was defined when CLEAN II work started; seven years' worth of information was available. OU-2 was not yet defined.
3. OU-1 has a low concentration of contamination, whereas the on-station areas (OU-2A) has a high concentration.
4. Limited remedial technologies are available for low concentrations in a large area. More options exist for higher concentrations in a smaller area.
5. Off-station, there will be direct impact from desalter development; on station, the impact is indirect and will not compete with the planned water supply project.

Update on Orange County's Reuse Planning Efforts - Tom Mathews, Director of Planning, Orange County Environmental Management Agency

In response to the RAB's request for a reuse planning update, Mr. Mathews explained that the Environmental Management Agency (EMA) has hired an environmental planning firm to prepare the reuse plan, and has been examining earlier planning documents to prepare baseline information. In December, EMA released the Preliminary Non-aviation Concepts Report, and in January, the Preliminary Aviation Market Assessment. Public meetings have been held, and official public comment periods are underway. The concepts in the reports are meant to stimulate discussion and input, and to help EMA refine the definition of reuse alternatives. Both aviation and non-aviation alternatives will be evaluated in comparable levels of detail. These reports precede the County's Environmental Impact Report, which, along with the Reuse Plan, will be submitted to the Board of Supervisors this year.

The federal Office of Economic Adjustment offered a \$910,000 grant to study non-aviation reuse alternatives; an earlier Federal Aviation Administration grant for \$908,000 was used to study aviation alternatives. The study and reuse planning process will continue even if Measure S passes in the next election. That measure repeals the requirement that an airport be built at MCAS El Toro; it does not forbid an aviation reuse.

MEETING EVALUATION

RAB members enjoyed Mr. Mathews' presentation and would like periodic updates on reuse planning. Some members found the earlier start time of 6:30 helpful; others felt it was too early. The agency comments on the OU-1 Revised Draft Interim Action Feasibility Study were well-received; another member expressed appreciation for the support offered by agencies and the attendance of Congressional members' staff. Suggested topics for future meetings included an update on the new BRAC Cleanup Plan (due for publication in March), a comprehensive schedule review of all tasks; an update of when environmental documents and reports will be available for RAB review; and a report on the groundwater sampling results.

FUTURE MEETING DATE AND LOCATION

The next RAB meeting is scheduled for Wednesday, February 28, 1996 from 6:30 to 9:00 p.m., at the Irvine City Hall, Conference and Training Center. The meeting was adjourned at 9:30 p.m.

Attachments:

- Sign-in sheets
- Proposed changes to MCAS El Toro Installation Restoration Program/Restoration Advisory Board (RAB) "Mission Statement and Operating Procedures"
- Corrections to 11/30/95 RAB meeting minutes

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

- RAB meeting agenda
- RAB meeting minutes - November 30, 1995 meeting
- Acronyms and Glossary of Technical Terms
- Presentation - Field Investigation Status Report Operable Unit 3, MCAS El Toro
- Presentation - MCAS El Toro Community Relations Plan Overview
- Appendix C - Draft Final Updated Community Relations Plan for MCAS El Toro
- U.S. EPA comments on "Draft Operable Unit 1 Interim-Action Feasibility Study Report"
- Cal EPA-DTSC comments on "Draft Operable Unit 1 Interim-Action Feasibility Study Report"

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