

Minutes  
Restoration Advisory Board  
Navy Are Wide

A Restoration Advisory Board (RAB) meeting was held on Thursday, September 20, 2001, at the Hyatt Regency Hotel, Guam, at 7:00 p.m. Enclosure (1) is a list of attendees for the meeting.

LCDR Kramps, was introduced as the Regional Environmental Programs Officer for the U.S. Naval Forces Marianas (COMNAVMARIANAS) and as RAB co-chairman. In his opening remarks LCDR Kramps introduced Mr. Roy Tsutsui, Facilitator and Regional Environmental Coordinator Manager for the Admiral and Ms. Julianne Duwel who would be giving the briefing/training for the evening. LCDR Kramps gave an apology for Mr. Mike Gawel, Bureau of Planning and co-chairman, who was unable to attend the meeting. LCDR Kramps further explained that, due to travel problems, PACDIV personnel from Hawaii were also unable to attend. He further explained that RAB meetings are held on a quarterly basis and they like to be consistent. Normally the RAB meeting provides information regarding on-going clean-up projects. Due to recent world events, it was decided to change the format of the meeting and provide an interactive training regarding various Acronyms used during the process.

LCDR Kramps covered the who, what, and why of the Restoration Advisory Board. The RAB is a team of individuals from the military and civilian community. Everyone is a part of the Restoration Advisory board which is held on a quarterly basis. The purpose of RAB is to keep the public informed of the various cleanup projects on Navy properties. The most important reason is "why". The reason is simple, that is knowledge. Knowledge and information are powerful tools in making informed decisions regarding the cleanup projects.

Julianne Duwel, P.E., gave a presentation referred to as "Alphabet Soup." She explained that projects most environmentalists work on use a lot of acronyms that can be confusing. Using past briefings given at the RAB meetings she choose various acronyms that had been used. Those acronyms were sorted into various categories, such as Organizations, Regulations, Agencies, Programs and Quantities. To get everyone motivated three containers had been placed at the sign-in table. She encouraged everyone to guess the parts per million (ppm) of a substance in each of the containers. A word find puzzle using the various acronyms was also distributed. Prizes were to be given out for the closest to the correct ppm and for the most acronyms found.

***The first group of acronyms covered were agencies which include Federal, Local and Military agencies.***

PACDIV- Pacific Division

COMNAVMARIANAS- Commander, Naval Forces Marianas which all Navy properties on Guam fall under.

CB- Construction Battalion which is a group of military personnel (civil engineering types) who are stationed on island for seven months.

FISC- Fleet Industrial Supply Center. FISC no longer exists but was brought up because some of the clean up projects involve properties used by FISC.

NAVACTS- Naval Activities

NEX- Naval Exchange, which has an ongoing project involving NEX properties.

PWC- Public Works Center

SRF- Ship Repair Facility, again various cleanup projects involve those properties.

Other agencies include USEPA- United States Environmental Protection Agency and GEPA- Guam Environmental Protection Agency. These agencies are partners with the Navy in cleaning up various properties. At this time Ms. Duwel welcomed Mr. Dave Longa, Deputy Administrator of the Guam Environmental Protection Agency. Another agency includes NOAA- National Oceanic and Atmospheric Administration.

***The next category was Regulations and Programs, which is only a small portion of the overall list. Regulations change constantly and the Navy must comply with all regulations.***

CAA- Clean Air Act. This is a federal regulation and Guam also has local air regulations with which the Navy must comply.

CWA- Clean Water Act. Among other things, this regulation is used to look at what can be discharged into the surface water as well as wetlands issues and dredging. The Army Corps of Engineers still has a one-man office on Guam to obtain necessary permits and to ensure compliance with the regulation.

SDWA- Safe Drinking Water Act, there are both Federal and Guam Regulations that must be followed. What does this have to do with cleanup projects? In some cases if you are looking at what the risk may be and to minimize impact to the environment you need to know what the drinking water standards are.

SWDA- Solid Waste Disposal Act. This is not normally discussed at RAB meetings in the past year. But it shows how simply switching letters around can easily confuse you.

HSWA- Hazardous and Solid Waste Amendment. This amends RCRA- Resources and Recovery Act.

CERCLA Comprehensive Environmental Response, Cleanup and Liability Act, which is the program most of the RAB-related projects fall under.

NPDES- National Pollutant Discharge Elimination System

And finally, IR- Installation Restoration.

***The next category is Contaminants/Sources.***

(L)UST- Leaking Underground Storage Tank.

PCP- Pentachlorophenol

PCB- Polychlorinated Biphenyls. This was used in the past as an insulating material in oil-filled transformers.

PAH- Polynuclear Aromatic Hydrocarbons

NAPL- Non-Aqueous Phase Liquids. These are liquids that seep into but do not mix with water.

(D)NAPL- Dense Non-Aqueous Phase Liquids. These are dense liquids which end up at the bottom of the aquifer.

(L)NAPL- Light Non-Aqueous Phase Liquids. These are so light they will float on top of the water.

DDT- This is a chlorinated organic insecticide. This was banned in the 70's and was the main reason for the decline of some bird populations.

BTEX- Benzene, Toluene, Ethylbenzene, Xylene. This is one of the first things to look for from leaking fuel tanks.

TFH- Total Fuel Hydrocarbons.

VOC- Volatile Organic Compounds.

***The next category is the various processes.*** These acronyms change. Navy, Air Force and contractors use different acronyms. Sometimes contractors make up their own acronyms.

IAS- Initial (Site) Assessment Study

SI- Site Investigation

RI- Remedial Investigation

FS- Feasibility Study. As citizens we would like all sites to be cleaned up. Unfortunately that is not always possible. You have to look at various options of a cleanup as far as the risk to health and the environment.

EE/CA- Engineering Evaluation/ Cost Analysis

FSP- Field Sampling Plan. This document spells out the type of samples being obtained, i.e. soil, water; type of equipment that is to be used as well as the frequency of the testing. This is also used as a guideline to ensure that sampling is being done correctly.

SAP- Sampling and Analysis Plan. This includes lab procedures and reflects EPA standards.

QAP- Quality Assurance Plan

WP- Work Plan

HASP- Health and Safety Plan. This helps identify possible health and safety problems that may occur and is used to ensure the safety of the employees working on the project.

PRG- Preliminary Remediation Goals

SERA/BERA- Screening Ecological Risk Assessment/ Baseline Ecological Risk Assessment

RVR- Remedial Verification Report

DD- Decision Document .

RSE- Removal Site Evaluation

RAC- Remedial Action Contractor

***The next category of acronyms covered technologies that may be used.***

MW- Monitoring Wells. A lot of information can be obtained from a monitoring well. Usually a monitoring well consists of PVC pipe, which is capped, locked and used to obtain water samples for an undetermined amount of time.

BCDP- Base Catalyzed Decomposition Process

GAC- Granular Activated Carbon: This is used in a lot of home water purification systems.

***The last category of acronyms is quantities.***

ppm- Parts Per Million. This is used in chemical analysis reports for contaminant

ppb- Parts Per Billion

mg/l- Milligrams Per Liter

mil- Millimeter

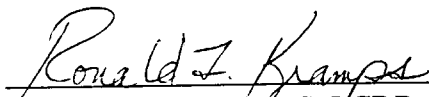
Roy Tsutsui gave a humorous overview of the IR process by combining acronyms together.

**Q-** How does the Navy dispose of their scrap metal?

**A-** All scrap metal is taken to the Defense Reutilization Marketing Organization (DRMO). DRMO periodically sells the metal to local companies via a bid process or the metal is transported off the island.

An interactive test was given by LCDR Kramps. Those giving a correct response to the questions were presented with a COMNAVMARIANAS logo Frisbee. The winner of the Word Search puzzle also received a Frisbee. The winner of the parts per million contests received the containers of candy.

The next meeting is scheduled for November 7th at 7:00 p.m. The location of the meeting will be announced at a later date. The meeting was adjourned at 8:30 pm.



RONALD F. KRAMPS, LCDR, CEC, USN  
Navy Co-Chairperson

Navy Area-Wide Restoration Advisory Board Meeting  
 Hyatt Regency Guam, Santa Rita/Rosa Ballroom  
 Thursday, September 20, 2001; 7:00 p.m. - 9:00 p.m.

Name	Organization/Company	Mailing Address	Contact Telephone and FAX Number(s)	e-mail address		
Beverly A. Hiatt	JTD					
Julie Duwel	JTD					
Roy Tsutsui	COMNAVVMAR	339-5094			n451@guam.navy.mil	
Brian Thomas	Unitec					
Al Rapolla	Koko Recycling					
Crisanta Hoover						
Anthony Hoover	COMNAVVMAR		339-8181			
Marricris Hoover	GCC					

**Navy Area-Wide Restoration Advisory Board Meeting**  
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Name	Organization/Company	Mailing Address	Contact Telephone and FAX Number(s)	e-mail address
Amanda Hoover	SHS	Santa Rita		
Criselda Cruz		Santa Rita		
Mariana Best		Ordot		
Lola Rosario	GWHS	Toto		
Cristina Carlos	GWHS	Mangilao		
Salinta Novell	GWHS	Mangilao	(808) 521-3051	brucewade@metcalfeddy.com
Bruce Wade	M&E Pacific	1001 Bishop St., Pauahi Tower Suite 500 Honolulu HI 96821		
Catalina V. Poblete	GEPA		475-1655	
Clint Huntington	Leo Palace Resort			

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Name	Organization/Company	Mailing Address	Contact Telephone and FAX Number(s)	e-mail address
Snow Yang & Jenny Chang				
Charles Rosales	GWHS			
Joe Gallo	COMNAVVMAR		339-7055	n4531@guam.navy.mil
Doris Gallo	KTGF Channel 12			
Troy Imamura	COMNAVVMAR		339-3116	n454@guam.navy.mil
Trini Torres				

## Navy Area-wide Restoration Advisory Board

Thursday September 20, 2001

Hyatt Regency Guam  
Santa Rita/Rosa Ballroom  
7pm – 9pm

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## “Alphabet Soup”

Organizations and Regulations  
Common Chemicals  
The IR Process  
Technologies  
Quantities



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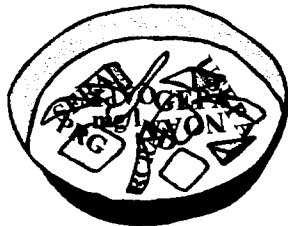
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## Organizations and Regulations



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## RAB

- Restoration Advisory Board
  - Who
  - What
  - Where
  - When
  - Why



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## The Navy

- PACDIV
- COMNAVMARIANAS
- CB
- FISC
- NAVACTS
- NEX
- PWC



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## ...More Navy

- SRF
- PACNAVFACENGCOM



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### Other Agencies/Organizations

- USEPA
- GEPA
- NOAA



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### Regulations and Programs

- CAA
- CWA
- SDWA
- SWDA
- HSWA
- RCRA



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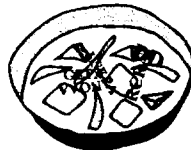
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### More Regs/Programs

- CERCLA
- NPDES
- IR



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### Common Contaminants/Sources

- (L)UST
- PCP
- PCB
- PAH
- (D)NAPL
- DDT
- BTEX



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### ...More Contaminants

- TFH
- VOC



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### How the Work Gets Done

- IAS
- SI
- RI
- FS
- EE/CA
- FSP
- SAP
- QAPP
- WP



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### ...More of the Process

- HASP
- PRG
- SERA/BERA
- RVR
- DD
- RSE
- RAC



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### Technologies

- MW
- BCDP
- GAC



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### Quantities

- ppm
- ppb
- mg/l
- mil



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Ready for Dessert???



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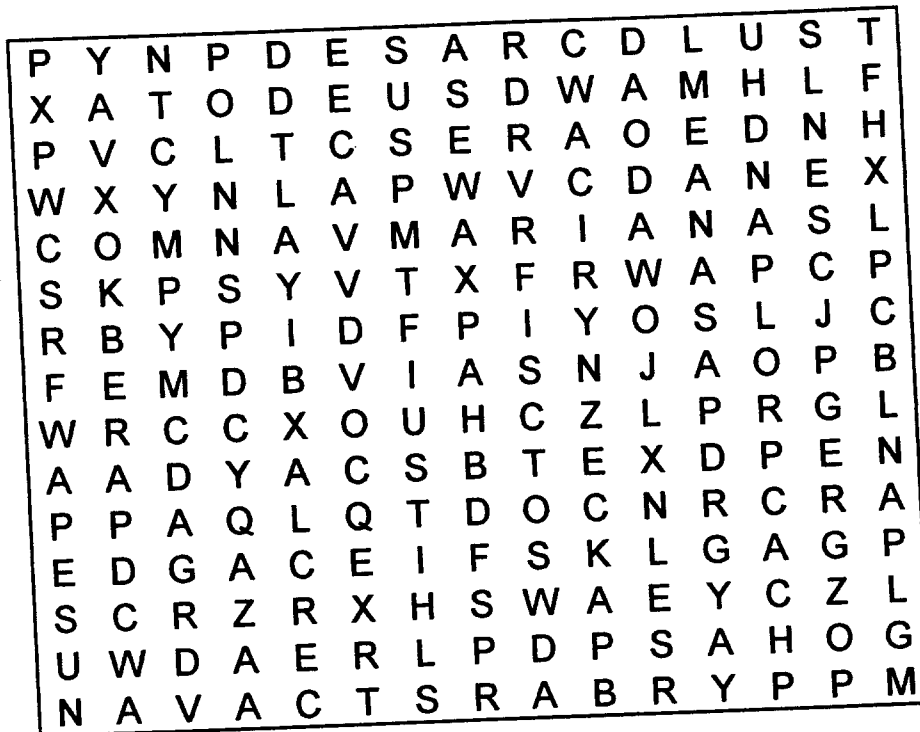
## PARTIAL LIST OF ACRONYMS AND THEIR DEFINITIONS

<b><u>Acronym</u></b>	<b><u>"Definition"</u></b>
BCDP	Base Catalyzed Decomposition Process
BERA	Baseline Ecological Risk Assessment
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CAA	Clean Air Act
CB	Construction Battalion
CERCLA	Comprehensive Environmental Response,
COMNAVMARIANAS	Commander, Naval Forces Marianas
CWA	Clean Water Act
DD	Decision Document
DDT	A chlorinated organic insecticide, banned in the
DNAPL	Dense Non-Aqueous Phase Liquid
EE/CA	Engineering Evaluation/Cost Analysis
FISC	Fleet Industrial Supply Center
FS	Feasibility Study
FSP	Field Sampling Plan
GAC	Granular Activated Carbon
GEPA	Guam Environmental Protection Agency
HASP	Health and Safety Plan
HHRA	Human Health Risk Assessment
HSWA	Hazardous and Solid Waste Amendments
IAS	Initial Assessment Study
IR	Installation Restoration
LNAPL	Light Non-Aqueous Phase Liquid
LUST	Leaking Underground Storage Tank
mg/l	Milligrams per Liter
mil	millimeter
MW	Monitoring Well
NAVACTS	Naval Activities
NEX	Navy Exchange
NOAA	National Oceanic and Atmospheric
NPDES	National Pollutant Discharge Elimination

<b><u>Acronym</u></b>	<b><u>"Definition"</u></b>
PACDIV	Pacific Division
PACNAVFACENGCOM	Pacific Naval Facilities Engineering Command
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Byphenyls
PCP	Pentachlorophenol
ppb	Parts per Billion
ppm	Parts per Million
PRG	Preliminary Remediation Goal
PVC	Polyvinyl Chloride
PWC	Public Works Center
QAPP	Quality Assurance Project Plan
RAB	Restoration Advisory Board
RAC	Remedial Action Contractor
RCRA	Resources Conservation and Recovery Act
RI	Remedial Investigation
RSE	Removal Site Evaluation
RVR	Remediation Verification Report
SAP	Sampling and Analysis Plan
SDWA	Safe Drinking Water Act
SERA	Screening Ecological Risk Assessment
SI	Site Investigation
SRF	Ship Repair Facility
SWDA	Solid Waste Disposal Act
TFH	Total Fuel Hydrocarbons
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compounds
WP	Work Plan

# WORD FIND

*Word may be found across, down or diagonal*



## Word List

CERCLA  
COMNAVMARIANAS  
CWA  
DNAPL  
EECA  
GEPA  
HSWA  
LNAPL  
NAVACTS  
NPDES  
PACDIV  
PACNAVFACENGCOM

NOAA  
SDWA  
SWDA  
USEPA  
HASP  
RCRA  
FISC  
PWC  
PRG  
RAC  
NEX  
GAC

SAP  
FSP  
RSE  
DDT  
TFH  
PCB  
CWA  
VOC  
PPM  
LUST  
QAPP  
BTEX

MGL  
PAH  
PPB  
RVR  
SRF  
CAA  
PCP  
BCDP  
RAB  
BERA  
SERA  
PVC