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File: 17-07  
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**ANDERSEN AFB  
GUAM**

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**ADMINISTRATIVE RECORD  
COVER SHEET**

AR File Number 505

ANDERSEN AIR FORCE BASE  
RESTORATION ADVISORY BOARD (RAB)  
MEETING MINUTES  
16 November 2000

ATTENDEES:

Col G. Nixon – Acting Installation Co-chair (AAFB)  
Sen J. Brown – Community Co-chair  
Mr. J. Jocson – RAB Member  
Mr. M. Gawel – RAB Member  
Mr. F. Castro – RAB Member  
Mr. M. Quenga – RAB Member  
Mr. E. Artero – RAB Member  
Mr. M. Ripperda – RAB Member (USEPA)  
Mr. V. Wuerch – Outgoing RAB Member (GEPA)  
Mr. W. Leon Guerrero – Incoming RAB Member (GEPA)

Public Attendees:

Lt Col R. Eide – AAFB  
Capt J. Cochran – AAFB  
Ms. J. Poland – AAFB  
Mr. J. Torres – AAFB  
Mr. G. Ikehara – AAFB  
Mr. J. Hill – AFCEE  
Mrs. S. Money – AFCEE  
Mrs. P. Rowans – AFCEE  
Mr. J. Iglesias – Congressman Underwood's Staff Member  
Mr. T. Towers – RFW  
Mr. C. Arnsfield – IT  
Mr. K. Damiro – BOP  
Ms. R. Perez – Senator Brown's Staff Member  
Mr. J. Rosacker – UNITEC  
Mr. J. Floden – UNITEC  
Mr. T. Ghofrani – EA  
Mr. R. Shambach – EA  
Mr. M. Knight – URS

1. Introduction:

Col Nixon started the meeting by introducing himself to the Restoration Advisory Board (RAB) members as Col Schoeck's alternate for the Installation Co-chair. Senator J. Brown explained that there has been continuity in the RAB program due to active member participation, even though the meetings are once every 3 to 4 months. Mr. Ikehara, of Andersen AFB, was introduced as the first speaker. Mr. Ikehara announced that since no written corrections were received regarding the last RAB meeting minutes, the last set of RAB meeting minutes will be considered final.

a. Groundwater Sampling Results – Presented by Mr. Ikehara:

Mr. Ikehara reported that Andersen AFB just completed the recent “wet-season” groundwater sampling for Fall 2000. Mr. Ikehara reviewed Spring 2000 groundwater sampling results. TCE was detected in groundwater collected from monitoring wells IRP-31, IRP-3, IRP-39, and IRP-51. IRP-31 is a deep well that is screened near the bottom portion of the groundwater lens. The TCE concentrations detected during this round of groundwater sampling were similar to previous sampling events. The TCE concentration in IRP-3 was slightly lower compared to previous sampling events.

Senator Brown and Mr. Castro inquired about the fluctuation in TCE concentrations in the other wells. Mr. Ikehara replied that the fluctuation in TCE concentrations might be due to the variation in seasonal groundwater recharge. Mr. Ikehara stated that the presence of TCE in MARBO groundwater is a perplexing issue because the surface source has not been identified yet. There may be an unidentified secondary source in the subsurface vadose zone that is contributing to the TCE in groundwater at MARBO. Senator Brown asked if the reason for the fluctuation in the TCE concentration was due to the use of a *Diffusion Sampler*. Mr. Ikehara said that the sampling technique used for the Spring 2000 sampling event was consistent with the previous round of sampling: low flow dedicated or portable pumps were used for sampling.

Senator Brown asked if any data was collected prior to 1995. Mr. Ikehara replied groundwater data was collected prior to 1995, but that the data is not comparable for volatile organic compounds because the “older” data was collected under a different Quality Assurance Program using different sampling techniques, which could potentially alter the sample before analysis. Senator Brown asked if the depth of wells in the groundwater lens is the reason for the lingering effect of TCE presence. Mr. Ripperda explained that TCE is a heavier compound and over time migrates from the upper fresh water lens to the lower brackish portion of the groundwater lens.

Senator Brown emphasized that the source of the TCE in MARBO groundwater needs to be further investigated due to the proximity of the MARBO production wells. Mr. Wuerch mentioned that, allegedly, an employee in the National Weather Service indicated that there had previously been a PCE/TCE drum removal at MARBO Laundry. This allegation has not yet been substantiated. Mr. Wuerch also stated that the 1997 shutdown of the air stripper at Booster Station 2 might be the reason for the lingering effect of the TCE in MARBO groundwater. Col Nixon inquired about the fluctuation in the groundwater level at MARBO. Mr. Jocson indicated that the seasonal fluctuation in the groundwater elevation is very minimal, 2 to 3 feet.

Senator Brown asked if MARBO groundwater data is being shared with Guam Waterworks Authority (GWA). Mr. Ripperda replied that Andersen AFB does share its information with GWA, however the TCE at the upper portion of the groundwater lens is either at non-detect or barely detectable concentrations. Mr. Ripperda suggested that Andersen AFB include a map showing the location and history of TCE in the wells in future RAB meetings. The board members agreed that the TCE in ground water issue was an important topic that would be presented in more detail during the next RAB meeting in February.

approximately 12 acres. Senator Brown inquired about the nature of the debris. Mr. Torres replied that dumped material consisted mostly of metal debris, and engine and aircraft parts. Based on preliminary sample results, the sites have detectable concentrations of PCBs, benzo (a) pyrene, lead, and arsenic.

Mr. Torres stated that Site 31/Chemical Storage Area 4, Site 21/Landfill 26, Site 34/PCB Storage Area, Site 10/Landfill 14, Site 22/Waste Pile 6, Site 24/Landfill 29, Site 5/Landfill 7, and Site 2/Landfill 2 are scheduled for 2001 cleanup. At Site 24/Landfill 29 approximately 13,000 cubic yards of soil will be treated by Triple Super Phosphate (TSP) using a pug mill. The treated soil will then be transported to Site 2/Landfill 2. Site 5/Landfill 7 is located in a housing area. At this site, the impacted soil will be excavated and stockpiled at Site 35/Waste Pile 1.


d. Harmon Operable Units – Presented by Mr. Torres

Mr. Torres mentioned that there is no field activity at the Harmon sites. Andersen AFB has submitted the final Remedial Investigation (RI) report for final regulatory review. A public meeting is scheduled on or around 15 February 2001. Finally, Mr. Torres provided a site status summary for all 40 IRP sites. Ms. Poland recommended a list of acronyms be added to the handouts.

2. Other RAB Meeting Issues

Senator Brown informed the RAB members that after almost six years serving as Co-Chair for the RAB meeting, she would like to step aside for someone else to accept the Co-Chair position. Senator Brown suggested that during the February 2001 meeting, another RAB member should be nominated as her replacement for the co-chair seat. The meeting was adjourned at approximately 1930 hrs.

APPROVED/~~DISAPPROVED~~

  
 GEORGE J. NIXON, Colonel USAF  
 Acting Installation Co-Chair, Restoration Advisory Board

16 JAN 01  
 DATE

  
 JOANNE S. BROWN, Senator, 25th Guam Legislature  
 Community Co Chair, Restoration Advisory Board

Jan 23/01  
 DATE

Mr. Ikehara added that no contaminants were detected in any of the three additional downgradient wells (M-10A, M-11, and EX-6). These wells are currently used by US Geological Survey (USGS) for measuring groundwater levels. Mr. Castro asked if the groundwater data is available for use in GIS format. Mr. Ikehara responded that all sample points and results are available for use in GIS format.

b. Urunao Dumpsites 1 and 2 Operable Unit – Presented by Mr. Ikehara

Mr. Ikehara mentioned that Urunao Dumpsites 1 and 2 are being added to the Federal Facility Agreement (FFA) as a new Operable Unit (OU) due to the importance of this site. Mr. Ikehara added that the two dumpsites are located on private (Artero) property. Based on a previous investigation at Urunao Dumpsites 1 and 2, additional surface and subsurface samples will be collected at both dumpsites to conduct human health and ecological risk assessments in order to complete a Remedial Investigation/Feasibility Study (RI/FS). Appropriate funds have been obtained to complete the investigative phase through the Record of Decision (ROD) phase for these dumpsites.

Mr. Artero inquired about the ROD that was signed about 10 years ago. Ms. Poland stated that it was an Environmental Impact Statement (EIS) ROD. The Comprehensive Environmental Response Compensation and Liability Act (CERCLA) RI/FS ROD will be based on more data and is more comprehensive.

Senator Brown suggested that once the IRP sites are cleaned, a tour of the site might provide a tangible understanding of the status of these sites. Mr. Ikehara emphasized that Dumpsites 1 and 2 are located on a cliff line that is very difficult to access. Ms. Poland added that Andersen AFB has met with the Artero family and has informed them about the status of the site and through Congressman R. Underwood and PACAF, appropriate funding was provided for completion of the investigation phase of the Urunao Dumpsites 1 and 2. Mr. Castro inquired about available records regarding the nature of the dumped materials at the site. Ms. Poland responded that very limited background information exists for the dumpsites, but the nature of the debris is documented in the previous environmental baseline survey report for the dumpsites.

c. Main Base Operable Units – Presented by Mr. Torres

Mr. Torres mentioned that at Firefighter Training Area 2, a Bioventing/Vapor Extraction System (BIOVES) was installed in 1998. Based on pccr review, 3 additional boreholes are recommended for installation at the site to delineate the lateral and vertical extent of the plume. Additionally, a deep borehole installation is recommended at the Burn Pit for collecting subsurface samples. Mr. Castro suggested that the BIOVES would be interesting as a demonstration technology for students during the upcoming Earth Day.

Mr. Torres stated that approximately 5,000 cubic yards of asphalt debris were removed from Site 6/Landfill 8 and transported to Site 35/Waste Pile 1.

Mr. Torres explained that Site 14/Landfill 19 was originally estimated to be one acre in size. However, after the completion of the field investigation, the site was determined to be

RESTORATION ADVISORY BOARD  
AGENDA

February 22, 2001  
6:30 p.m. – 7:30 p.m.  
Hilton Hotel

1. Review of Old Business: (16 Nov 2000 meeting minutes)
2. New Business
  - a. Elect new co-chairperson
3. Public Comment
4. Adjournment
5. Harmon Proposed Plan Public Hearing

\*Because of the importance of expediting the land transfer of the Harmon Annexes to the Government of Guam, this quarterly RAB meeting will focus on public input for the Proposed Plan for the 3 IRP sites in Harmon.

## DISTRIBUTION LIST

Colonel George J. Nixon  
Senator Joanne M. Salas Brown  
Mayor Robert Lizama  
Mr. Jim D. Iglesias  
Ms. Carmen Sian-Denton  
Mr. Fred Castro  
Mr. Edward C. Artero  
Mr. John Jocson  
Ms. Maureen Quenga  
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Mr. Mike Carey  
Mr. Victor Wuerch  
Mr. Mark Ripperda

**FINAL PAGE**

**ADMINISTRATIVE RECORD**

**FINAL PAGE**