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ENVIRONMENTAL BASELINE SURVEY ADDENDUM REPORT FOR SHIP REPAIR FACILITY (SRF) INLAND AND WATERFRONT AREAS, MARIANA ISLANDS, GUAM (FINAL)

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Exhibit B

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LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-containing Material
AST	Aboveground Storage Tank
BCP	BRAC Cleanup Plan
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERFA	Community Environmental Response Facilitation Act
CFR	Code of Federal Regulations
CLEAN	Comprehensive Long-Term Environmental Action Navy
CSO	Caretaker Site Office
CTO	Contract Task Order
DoD	Department of Defense
EBS	Environmental Baseline Survey
ECP	Environmental Condition of Property
FOSL	Finding of Suitability to Lease
GC	Gas Chromatograph
GEPA	Guam Environmental Protection Agency
GovGuam	Government of Guam
IR	Installation Restoration
IRP	Installation Restoration Program
MEK	Methyl ethyl ketone
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
OWS	Oil/Water Separator System
PACNAVFACENGCOM	Pacific Division Naval Facilities Engineering Command
PAH	Polynuclear Aromatic Hydrocarbon

PCB	Polychlorinated Biphenyl
PWC	Public Works Center
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SRF	Ship Repair Facility
SVOC	Semivolatile Organic Compound
SWMU	Solid Waste Management Unit
TPH	Total Petroleum Hydrocarbon
USEPA	U.S. Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound

SECTION 1
INTRODUCTION

An Environmental Baseline Survey (EBS) was performed for various parcels in Guam during November and December 1995. The Final EBS report was completed in September 1996 and pages were revised in February 1997 (Ogden 1997b). An update to the EBS was conducted in September 1997. This EBS addendum report summarizes the updated information. The EBS and EBS update were conducted for the Pacific Division Naval Facilities Engineering Command (PACNAVFACENGCOM) in accordance with Contract Task Order (CTO) No. 0201, issued under Comprehensive Long-Term Environmental Action Navy (CLEAN) contract number N62742-90-D-0019.

The purpose of the EBS is to comply with the Community Environmental Response Facilitation Act (CERFA) of 1992, PL 102-426, which amends the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980. The EBS activities were performed to evaluate the current environmental conditions of the Ship Repair Facility (SRF) prior to the potential transfer of ownership or lease of equipment and/or land. Two sites were evaluated during the EBS and EBS update activities: the SRF Inland site and the SRF Waterfront site (Industrial Area and Drydock Island).

The purpose of this EBS addendum report is to update the Final EBS for the SRF Inland and Waterfront Areas dated September 1996, revised February 1997 (Ogden 1997b). This document is intended to be used as a companion document to the EBS report and includes new pertinent information and revised Environmental Condition of Property (ECP) categorizations for the subject sites. The following documents have been prepared subsequent to the November and December 1995 EBS activities and may be referenced in this EBS addendum report:

- EBS for SRF Inland and Waterfront Areas, Guam, Mariana Islands, Final Report, September 1996 (Ogden 1997b)

- Base Realignment and Closure (BRAC) Cleanup Plan (BCP) for SRF Inland and Waterfront Areas, Final Report (Ogden 1996)

- Finding of Suitability to Lease (FOSL) SRF Waterfront Industrial Area, Final Report (Ogden 1997c)

- BCP Update #1 for SRF Industrial Area Site, Final Report (Ogden 1998)

1.1 PURPOSE OF THE ENVIRONMENTAL BASELINE SURVEY ADDENDUM

The EBS report documents the existing environmental conditions of the subject properties and identifies uncontaminated properties and areas of environmental concern. Areas of environmental concern based on the presence, or likely presence, of hazardous substances as defined by CERCLA, and petroleum products pursuant to CERFA, were identified during the November and December 1995 EBS activities. The EBS activities included record reviews, physical reconnaissance, and interviews for SRF and adjacent properties to assess the potential for environmental contamination associated with current and historical land use and operations that may impact the subject sites.

An EBS update was performed for the SRF Inland and Waterfront sites (Industrial Area and Drydock Island) in September 1997. The EBS update included site visits, interviews, file/record reviews, and regulatory agency file reviews to obtain current and historic information for the subject SRF sites. This EBS addendum report is an abbreviated version of the EBS report and is intended to be used as a companion document to the EBS report.

1.2 PARCEL IDENTIFICATION

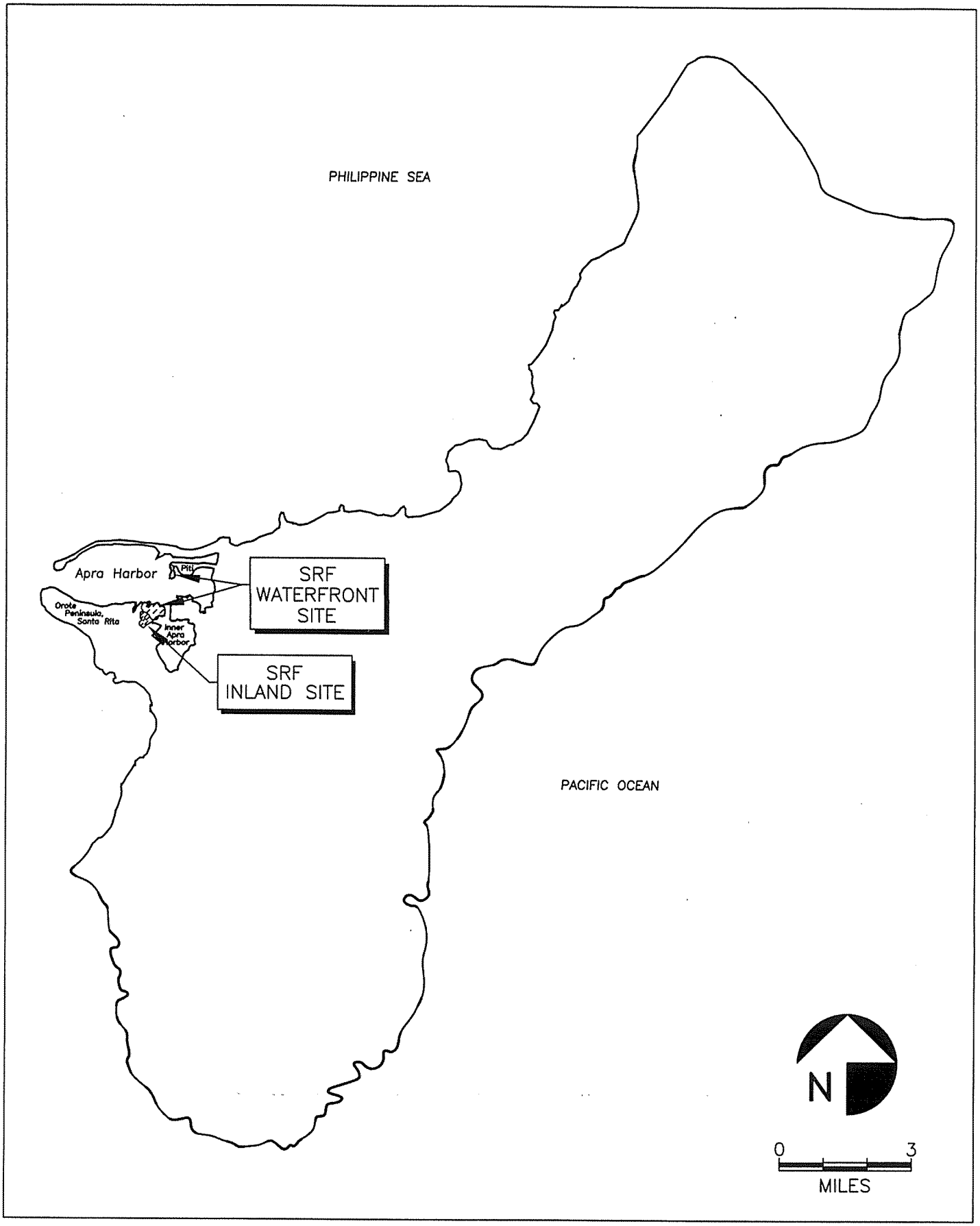
The SRF property evaluated during EBS activities has been divided into two sites: the SRF Inland site and the SRF Waterfront site. The SRF Waterfront site, excluding Romeo Wharf, has been designated as a BRAC IV site. The SRF Waterfront site includes the

Industrial Area and Drydock Island. Figure 1-1 depicts the general site locations and Figure 1-2 shows an enhanced view; more detailed maps illustrating site features are presented in Appendix A of this EBS addendum report.

Since March 1997, the SRF Industrial Area site is no longer used by the Navy, with the exception of Buildings 2006 and 2028. Building 2006 is used as office space, and Building 2028 is used as a warehouse to store equipment and supplies, and as office space. The Industrial Area was leased to the Government of Guam (GovGuam), which in turn has subleased this site to Xenotechnix, as of October 1, 1997. Xenotechnix (also referred to as Guam Shipyard) is utilizing the property for ship berthing, storage, voyage and emergency repair, and related services for service craft as well as commercial and government ships. The FOSL for Waterfront Industrial Area dated April 1997 describes environmentally related restrictions regarding the lease of the Waterfront Industrial Area site (Ogden 1997c).

The SRF Inland and Waterfront Industrial Area sites occupy approximately 163 acres on Orote Peninsula at the entrance to Inner Apra Harbor. SRF Waterfront Drydock Island occupies approximately 19 acres located north of the Industrial Area within Outer Apra Harbor. Table 1-1 provides site identification and land use descriptions for the subject sites. Only new findings for the parcels listed in Table 1-1 are discussed in Section 2 and Section 3 of this EBS addendum report.

The properties identified herein may or may not be designated as excess land by the Navy at the time of this report. Although some of the properties presented in this report may be designated as excess land, the EBS also provides a baseline environmental assessment of land that may be available for transfer or lease at a future date.

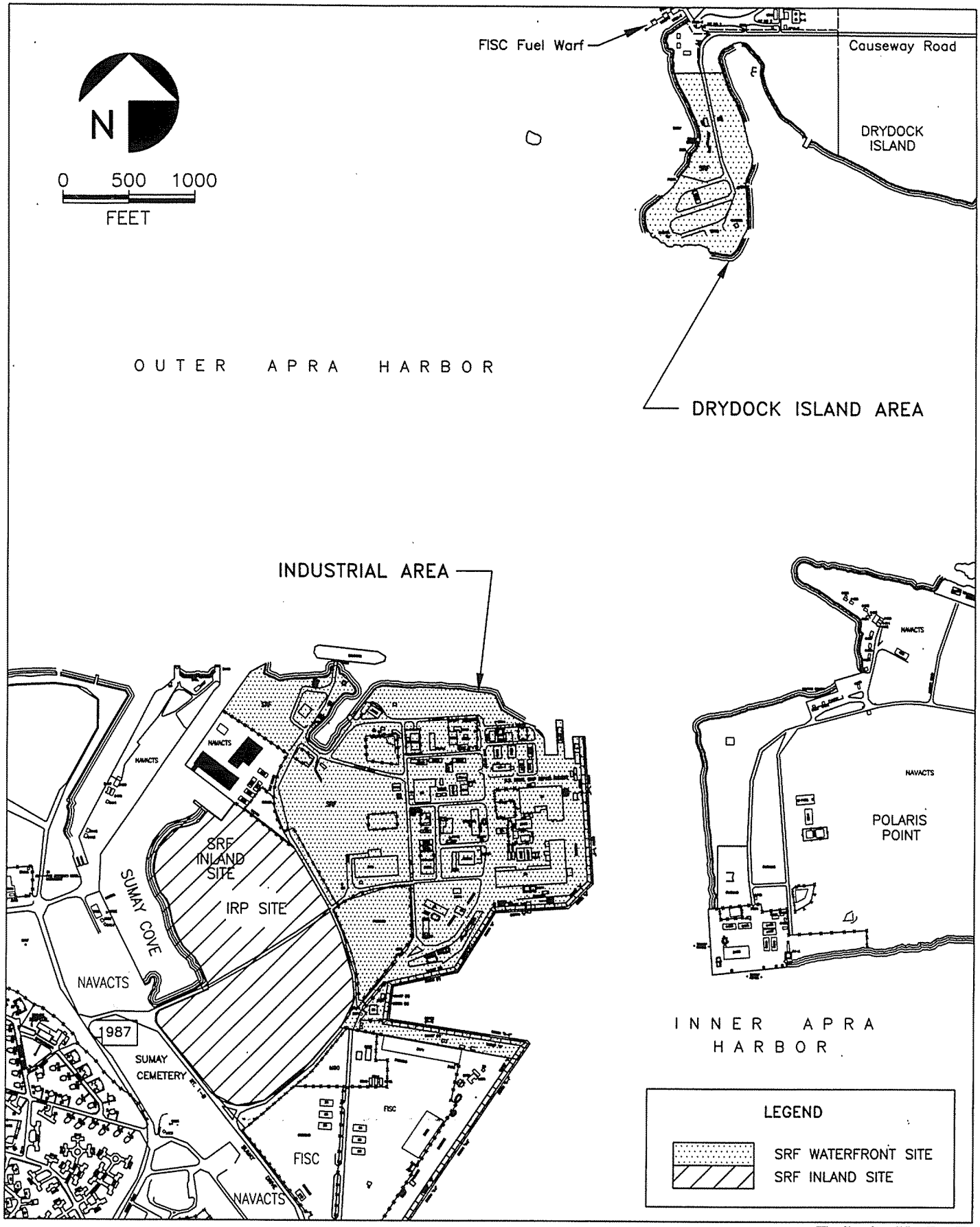


FIGURE

1-1

SRF Inland and Waterfront Sites
SRF Guam

File Name: e:\Navy Clean\San Diego Clean\CTO 201\SRF_Update\SRFGuam.dwg



FIGURE

SRF Inland and Waterfront Sites
SRF Guam

1-2

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Table 1-1

SITE IDENTIFICATION AND LAND USE

Navy Activity	BRAC ID	Name	General Location on Guam	Acreage	Elevation[1]	Current Land Use[2]	Map Reference*
SRF	SRF Inland	SRF Inland Site	Southwest	55	0-10	Vacant/Heavily Vegetated	A-1
SRF	SRF Waterfront	SRF Waterfront Site:					
		Industrial Area	Southwest	108	0-10	Office/Storage/ Wharf/Ship Related Services	A-2
		Drydock Island	Southwest	19	0-10	Inactive	A-3

* Site maps are provided in Appendix A.

Notes:
[1] Elevations in feet above mean sea level (USGS 1978)
[2] Current land use information was obtained from observations made during 1995 and 1997 physical reconnaissance activities.
BRAC ID = Base Realignment and Closure Identification
SRF = Ship Repair Facility

SECTION 2
UPDATED FINDINGS

This section summarizes changes in compliance issues and/or potential areas of concern evaluated in the EBS for SRF Inland and Waterfront sites (Industrial Area and Drydock Island), dated September 1996, revised February 1997 (Ogden 1997b). The new information included in this EBS addendum report updates the applicable sections in the EBS. Table 2-1 summarizes the changes that have been made to the potential areas of concern at the SRF Inland site, Industrial Area, and Drydock Island since the Final EBS report (Ogden 1997b)

2.1 REGULATORY COMPLIANCE STATUS AND AREAS OF CONCERN

As shown in Table 2-1, there have been no changes to the potential areas of concern at the SRF Inland or Drydock Island sites since the September 1996, revised February 1997 EBS report. The sections listed below reference the appropriate sections of the EBS report and summarize new information for the potential areas of concern at the Industrial Area.

- Storage Tanks and Pipelines
- Hazardous Substances/Waste Management
- Polychlorinated Biphenyls (PCBs)
- Asbestos
- Lead-based Paint
- Radon
- Resource Conservation and Recovery Act (RCRA) Facilities
- Wastewater/Storm Water
- Potable Water
- Air Emissions
- Pesticide Management
- Oil/Water Separators
- Radioactive Material
- Mixed Waste
- Medical/Biohazardous Waste
- Ordnance
- Installation Restoration Program (IRP) Sites

Table 2-1

NEW COMPLIANCE ISSUES IDENTIFIED AT THE SRF INLAND AND WATERFRONT SITES

Site Name	Storage Tanks and Pipelines	Hazardous Substances/ Waste Management Areas	PCBs	Asbestos	Lead-based Paint	Radon	RCRA Facilities	Wastewater/ Storm Water	Potable Water	Air Emissions	Pesticide Management	Oil/Water Separators	Radioactive Material	Mixed Waste	Medical/ Biohazardous Waste	Ordnance	Installation Restoration Program Sites
SRF Inland Site:	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	**Section 2.1.17 Table 2-7**
SRF Waterfront Industrial Area:	**Section 2.1.1 Table 2-2 Table 2-3**	See RCRA Facilities	**Section 2.1.3**	**Section 2.1.4**	NC	NC	**Section 2.1.7 Table 2-5**	**Section 2.1.8**	NC	**Section 2.1.10**	NC	**Section 2.1.12 Table 2-6**	**Section 2.1.13**	NC	NC	NC	**Section 2.1.17 Table 2-7**
SRF Drydock Island:	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

NC = No Change
PCB = Polychlorinated Biphenyl
RCRA = Resource Conservation and Recovery Act

The additional information presented herein is based on document reviews, interviews, and observations noted during site reconnaissances conducted between September 1997 and May 1998. A copy of the field notes, records of conversation, and correspondence is presented in Appendix B.

2.1.1 Storage Tanks and Pipelines

This section presents changes to the information presented in the EBS report for underground storage tanks (USTs), aboveground storage tanks (ASTs), and pipelines associated with the Industrial Area. The information presented below supersedes or augments Section 4.2.2.1 and Section 5.1.2 of the EBS report (Ogden 1997b).

One 550-gallon UST is located at the Industrial Area. Three USTs located at the Industrial Area were removed in March 1997 and replaced with ASTs at Buildings 30 and 2072. An assessment of contamination identified at the two former UST sites at Buildings 2072 commenced in April 1998 (Shigaki 1998). The Navy has conducted site assessment activities at the former UST location at Building 30 (PACNAVFACENGCOM 1998). The constituent concentrations reported for the soil samples obtained during the tank removal activities are less than the following Guam Environmental Protection Agency (GEPA)-specified cleanup criteria: total petroleum hydrocarbons as diesel (TPH), 50 milligrams per kilogram (mg/kg); benzene, 0.05 mg/kg; toluene, 20 mg/kg; ethylbenzene, 7.0 mg/kg; and total xylenes, 100 mg/kg. The highest TPH concentration in the soil samples tested was 38, and the concentrations of benzene, toluene, ethylbenzene, and total xylenes were reported as less than the laboratory detection limits for each of the soil samples tested. The constituent concentrations reported for the water sample obtained from the tank pit were also less than the following GEPA-specified cleanup criteria: TPH, 10 milligrams per liter (mg/L); benzene, 0.005 mg/L; toluene, 2.0 mg/L; ethylbenzene, 0.07 mg/L; and total xylenes, 10 mg/L. The highest TPH concentration in the water sample tested was 3.0 mg/L, and the concentrations of benzene, toluene, ethylbenzene, and total xylenes were reported as less than the laboratory detection limits. Therefore, no further site assessment activities are proposed by the Navy. Concurrence from the GEPA has not yet been obtained.

In addition, an UST (UST 18), used as the final stage of an oil/water separator (OWS) system, was removed. This UST was located adjacent to the east of Building 27 (located within the Industrial Area) and was replaced with the above-mentioned 550-gallon UST . Building 27, constructed in 1968, is a boiler room that supplies hot water and steam to SRF. The Building 27 facility contains four ASTs used to store water (three approximately 4,000-gallon capacity and one approximately 5,000-gallon capacity), a 5,000-gallon diesel fuel AST, a 1,000-gallon diesel UST, and an OWS system that includes an OWS connected to an UST (Cruz 1997; Nexus 1997; Koki 1998a). UST 18, not previously described in the Final EBS report, consisted of a 250-gallon concrete tank located adjacent to the east of Building 27. UST 18 formerly collected steam condensate and waste oil slops from a boiler that supplies hot water and steam to SRF. This UST was installed in 1968 and did not have associated underground piping. The tank was cleaned in September 1995 and demolished in January 1996. Some visible staining and hydrocarbon odors were noted at the site during the tank excavation and demolition (Nexus 1997). The new 550-gallon, double-walled, fiberglass UST was installed in 1997 as a replacement to UST 18 (Nexus 1997). An assessment of the contamination identified at the former UST location at Building 27 commenced in April 1998 (Shigaki 1998). Table 2-2 summarizes the current status of the USTs at the Industrial Area.

The ten ASTs located at the Industrial Area store diesel, gasoline, and fuel oil. No records of releases associated with these ASTs were identified during the EBS activities. Table 2-3 lists the ASTs that have been installed at the Industrial Area since the Final EBS (Ogden 1997b).

2.1.2 Hazardous Substances/Waste Management

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 5.3 or other hazardous substance/waste management sections included in the EBS, dated September 1996 (revised February 1997) with the exception of new information on Solid Waste Management Unit (SWMU) #36, SWMU #38, SWMU #39, SWMU #40, SWMU #42, SWMU #43, and SWMU #45. These SWMUs are discussed in Section 2.1.7. In addition, as of March 1997, the Navy no longer uses the Industrial Area site with the exception of Buildings 2006 and 2028. Building 2006 is used as office

Table 2-2

UST INVENTORY
SRF INDUSTRIAL AREA

Tank ID/ Location	Year Installed	Capacity (gallons)	Current or Previous Contents	Construction	Protection or Containment System/Leak Detection Method	History of Repairs	Status
SRF Waterfront Site Industrial Area							
Bldg. 27	1968	250	Water, Oil	Concrete	Unknown	Unknown	Removed in January 1996. Additional site assessment activities commenced in April 1998. This UST was replaced with a new UST.
Bldg. 27	1997	550	Water, Oil	Double-walled Fiberglass	Leak Detection System	New Tank	Replaced UST 18 at Building 27.
Bldg. 30	1977	1,000	Diesel	Carbon Steel	Tank Tightness Tested Annually	Unknown	Removed in March 1997. Replaced with a 500-gallon AST. The Navy has conducted site assessment activities. Sample concentrations are less than GEPA-specified criteria. Therefore, no further site assessment activities are proposed by the Navy.
Tank 20-1 at Bldg. 2072	1988	1,000	Gasoline	Reinforced Fiberglass	Tank Tightness Tested Annually	Unknown	Removed in March 1997. Replaced with a 500-gallon AST. Additional site assessment activities commenced in April 1998.
Tank 20-2 at Bldg. 2072	1988	1,000	Diesel	Reinforced Fiberglass	Tank Tightness Tested Annually	Unknown	Removed in March 1997. Replaced with a 500-gallon AST. Additional site assessment activities commenced in April 1998.

AST = Aboveground Storage Tank
GEPA = Guam Environmental Protection Agency
ID = Identification
UST = Underground Storage Tank

Table 2-3

NEW ABOVEGROUND STORAGE TANKS
SRF INDUSTRIAL AREA

Location	Size/Contents	Installed	Status
SRF Waterfront Site			
Industrial Area			
Building 27 Boiler Building	1,000-gallon Diesel	1997	Inactive (Empty)
Building 30 Foundry	500-gallon Diesel	1997	Active
Building 2072 Gas Station	500-gallon Gasoline	1997	Active
Building 2072 Gas Station	500-gallon Diesel	1997	Active

space, and Building 2028 is used as a warehouse to store equipment and supplies, and as office space. Environmental compliance at the SRF Industrial Area site is the responsibility of the lessee. The SRF Caretaker Site Office (CSO) provides oversight.

2.1.3 Polychlorinated Biphenyls

This section presents changes to the information regarding PCBs at the Industrial Area and Drydock Island. The information presented below supersedes or augments Section 4.2.2.8 and Section 5.6.2 of the EBS report (Ogden 1997b).

Three transformers located in the Industrial Area formerly contained PCB-contaminated oil. As summarized in Table 2-4, transformers located at Building 20 within the Industrial Area and AFDM-8 Substation #2 within the Drydock Island site were retrofilled in March 1997. The transformer located at Building 21 Substation C within the Industrial Area was replaced in May 1997. Each of the existing onsite transformers that formerly contained PCBs has been retested pursuant to 40 CFR 761.30(a)(2)(v) and have been designated as non-PCB (Rhoden 1998). In addition, a previously retrofilled transformer (PAL 6187-0102) at Substation #1 of the AFDM-8 Drydock was replaced with a non-PCB transformer in 1988. No records of releases associated with these transformers were identified during the EBS activities. Appendix C provides a description of the transformers located on the Industrial Area and Drydock Island. No transformers are located on the SRF Inland site.

Table 2-4

FORMER PCB-CONTAINING TRANSFORMERS

Transformer Serial Number	Location	Notes
E694094	Building 20, Substation B	Retrofilled March 1997
F-956618	AFDM-8 Drydock, Substation #2	Retrofilled March 1997
PCL6499-0101	Building 21 Substation C	Replaced (Serial # F-963635) May 1997

2.1.4 Asbestos

This section presents changes to the information regarding asbestos at the Industrial Area. The information presented below supersedes or augments Section 4.2.2.2 and Section 5.2.2 of the EBS report (Ogden 1997b).

The Navy conducted the third asbestos survey of the Industrial Area in February 1997 as part of the BRAC BCP (BCM 1997). This survey identified friable asbestos in the gypsum board in Building 2016. Additionally, nonfriable asbestos was identified in the baseboards in Building 2016, and floor tiles and caulking in Buildings 23, 42, and 2077 (Ogden 1996; Koki 1998a).

Damaged, friable asbestos identified during the 1992 and 1996 (included in the EBS report) and February 1997 asbestos surveys have been repaired (Koki 1997, 1998a). In addition to the asbestos-containing materials (ACMs) indicated as being removed in Building 20 in the EBS report, the asbestos-wrapped steam lines were also removed in Building 20 (Koki 1998a).

2.1.5 Lead-based Paint

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 5.4 or other lead-based paint sections in the EBS report (Ogden, 1997b).

2.1.6 Radon

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 5.7 or other radon sections included in the EBS report (Ogden 1997b).

2.1.7 RCRA Facilities

This section presents changes to the information regarding the SWMUs located within the Industrial Area. The information presented below supersedes or augments Section 4.2.2.3 and Section 5.3.2 of the EBS report (Ogden 1997b).

Eight SWMUs are located within the Industrial Area (SWMU #36, #38, #39, #40, #42, #43, #45, and #51). The EBS report describes seven of the eight SWMUs (#36, #38, #39, #40, #42, #43, and #45). RCRA Facility Investigation (RFI) field activities were completed in July 1996 for the seven SWMUs identified in the September 1996, revised February 1997 EBS report. The sampling results from each site are provided in the *Draft RCRA Facility Investigation Report for SWMUs #36, #42, and #43, and SWMUs #38, #39, and #40, and SWMU #45, Ship Repair Facility, Apra Harbor Naval Complex, Guam*, dated February 1997 (Ogden 1997a). Table 2-5 summarizes the status of the seven SWMUs included in the RFI.

An eighth SWMU, SWMU #51 was not included in the EBS report (Ogden 1997b). PACNAVFACENGCOM identified this SWMU in a letter to the GEPA dated February 6, 1997. SWMU #51 is located at the SRF Foundry (Building 30) within the Industrial Area (Ogden 1997b). Table 2-5 includes a brief description of SWMU #51.

2.1.8 Wastewater/Storm Water

This section presents changes to the information presented in the EBS report for wastewater. The information presented below supersedes or augments Section 4.2.2.12 and Section 5.8.2 of the EBS report (Ogden 1997b).

The Navy obtained a National Pollutant Discharge Elimination System (NPDES) storm water discharge permit for industrial sites at Apra Harbor under the Final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity, dated September 25, 1992. However, the permit expired at midnight, September 25, 1997. The Navy has reapplied for the baseline industrial permit and plans to convert to the modified multi-sector permit once promulgated (Koki 1998c; Poentis 1998). It is understood

Table 2-5

STATUS OF THE SWMUs AT THE SRF INDUSTRIAL AREA

SWMU No.	Location	Status
Industrial Area		
#36 #42 #43	Pipefitting Shop at Building 21 Former Building 2047 Woodworking Shop Dip Tanks Building 21 Woodworking Shop Dip Tanks and Steam Clean Area between Buildings 2001A and 2002 (two noncontiguous areas).	SWMUs #36, #42, and #43 are identified as one study area because they are closely located and have related historical activities. During the RFI field activities 5 surface soil and 15 subsurface soil samples were collected and analyzed for VOCs, PAHs, TPH, phenols, metals, and pH. The Draft RFI concluded that there are no identified releases to surface or subsurface soil (Ogden 1997b). Ground-water samples were collected from five monitoring wells and analyzed for VOCs, SVOCs, TPH, metals, and pH. The maximum dissolved concentrations of lead and total concentrations of copper, lead, and nickel are greater than chronic NAWQC. However, it was indicated that only dissolved metals concentrations are potentially available for ground-water transport. Based on further evaluation of the various transport mechanisms and human health and ecological risk evaluations of the ground water, no corrective measures were recommended for ground water at SWMUs #36, #42, and #43. USEPA and GEPA have tentatively agreed to close out each SWMU that does not require any further action. A new Operable Unit Site Investigation is planned to address potentially elevated concentrations of metals in ground water throughout SRF. The RFIs and ICM conducted for the SWMUs at SRF concluded that the SWMUs are not the source of potentially elevated concentrations of metals in ground water, but that metals are potentially elevated in ground water beneath SRF. Thus, a ground-water investigation is planned to assess ground-water quality and potential risk to ecological receptors on a regional basis.
#51 **(New)**	Building 30 Foundry	The SRF Foundry (Building 30) was constructed in 1980 and contains a sand pit formerly used to cast molten metal. Molten metal was poured into a cast mold located in the sand pit. After the metal had cooled, the mold was removed. Metals and alloys used in the casting process included lead, zinc, bronze, and stainless-steel. Solvents were reportedly not used as part of routine facility operations (Depakikibo 1997). Unknown quantities of excess metals may have accumulated in the sand pit during these operations. It was also discovered during an excavation of the sand pit in 1996 that the sand pit is unlined. The area of concern is located within Building 30 and is approximately 30 feet wide by 40 feet long by 3 feet deep (Ogden 1997d). In February 1997, the Navy conducted an ICM at SWMU #51 that consisted of the

Table 2-5 (Continued)

STATUS OF THE SWMUs AT THE SRF INDUSTRIAL AREA

SWMU No.	Location	Status
		removal of all sand from the casting pit. Two samples of the sand removed from the pit were analyzed for metals, VOCs, and SVOCs by the TCLP test method. VOCs and SVOCs were not detected; two metals, barium and lead, were detected. The maximum concentrations of these metals are less than the RCRA criteria for classification as a hazardous waste. These findings are consistent with 1996 RFI data for SWMU #42, which indicated that there were no releases of organic compounds to soil or shallow ground water in the vicinity of Building 30 (Ogden 1997a). In September 1997, the Navy collected verification samples to assess whether the ICM can serve as the final corrective measure for the site. Verification sampling was conducted to evaluate whether these metals had leached to soils at the base of the pit, and thus assess whether excavation of sands during the ICM had effectively removed all impacted media. Ten ICM verification samples were analyzed for the eight metals of concern, as approved by GEPA and USEPA prior to initiation of field activities. The samples contained detectable concentrations of metals, but the results are within the acceptable risk range for industrial and residential settings. Therefore, no additional corrective measures were recommended in the Draft ICM Verification Sampling Report for SWMU #51 (Ogden 1997d). GEPA indicated in a letter dated April 21, 1998, that they generally concur with the recommendation to close the site; however, they plan to reevaluate the final closure of SWMU #51 after review of the findings associated with the planned regional ground-water investigation (GEPA 1998).
#38 #39 #40	Building 2074 Plating Shop Neutralization Tank Building 2074 Waste Acid Storage Area Building 2074 Battery Drainage Area	SWMUs #38, #39, and #40 are identified as one study area because they are immediately adjacent and have similar waste operations. Two surface soil, three shallow subsurface, and two subsurface soil samples were collected and analyzed for lead and pH during the RFI field activities. The Draft RFI (dated February 1997) concluded that there are no identified releases to surface or subsurface soil with the exception of one sample located at SWMU #39 near the waste acid storage area. The concentration of lead detected at this location is below the USEPA cleanup goal (USEPA 1996). Therefore, no corrective measures were recommended for soil and a No Further Action recommendation has been made for SWMUs #38, #39, and #40. Ground-water samples were collected from five monitoring wells and analyzed for lead and pH. The maximum dissolved concentration of lead in ground-water samples collected at SWMUs #38, #39, and #40 is less than three times the chronic NAWQC. Based on further

Table 2-5 (Continued)

STATUS OF THE SWMUs AT THE SRF INDUSTRIAL AREA

SWMU No.	Location	Status
		evaluation of the various transport mechanisms and human-health and ecological risk evaluations of the ground water, no corrective measures were recommended for ground water at these SWMUs. USEPA and GEPA have tentatively agreed to close out each SWMU that does not require any further action. A new Operable Unit Site Investigation is planned to address potentially elevated concentrations of metals in ground water throughout SRF. The RFIs and ICM conducted for the SWMUs at SRF concluded that the SWMUs are not the source of potentially elevated concentrations of metals in ground water, but that metals are potentially elevated in ground water beneath SRF. Thus, a ground-water investigation is planned to assess ground-water quality and potential risk to ecological receptors on a regional basis.
#45	"Back 40" Lot	During the RFI field activities 18 surface soil samples were collected and analyzed for SVOCs, TPH, and metals. Thirteen subsurface soil samples were collected and analyzed for VOCs, SVOCs, TPH, and metals. There were no releases identified to subsurface soil at SWMU #45; however, three potential releases of TBT were identified in the surface soil located in the northern half of SWMU #45. According to the Draft RFI report (dated February 1997), health risks to human and ecological receptors are within an acceptable range for industrial sites (Ogden 1997a). Ground-water samples were collected from seven monitoring wells and analyzed for VOCs, SVOCs, TPH, and metals. The maximum dissolved concentrations of lead and copper and total concentrations of copper, lead, and nickel are greater than chronic NAWQC. However, it was indicated that only dissolved metals concentrations are potentially available for ground-water transport. Based on further evaluation of the various transport mechanisms and human health and ecological risk evaluations of the ground water, no corrective measures were recommended for ground water at SWMU #45. A new Operable Unit Site Investigation is proposed to address potentially elevated concentrations of metals in ground water throughout SRF. The RFIs and ICM conducted for the SWMUs at SRF concluded that the SWMUs are not the source of potentially elevated concentrations of metals in ground water, but that metals are potentially elevated in ground water beneath SRF. Thus, a ground-water investigation is planned to assess ground-water quality and potential risk to ecological receptors on a regional basis.

Table 2-5 (Continued)

STATUS OF THE SWMUs AT THE SRF INDUSTRIAL AREA

GEPA = Guam Environmental Protection Agency
ICM = Interim Corrective Measure
NAWQC = National Ambient Water Quality Criteria
PAH = Polynuclear Aromatic Hydrocarbon
RFI = RCRA Facility Investigation
SRF = Ship Repair Facility
SVOC = Semivolatile Organic Compound
SWMU = Solid Waste Management Unit
TBT = Tributyltin
TCLP = Toxicity Characteristic Leaching Procedure
USEPA = U.S. Environmental Protection Agency
VOC = Volatile Organic Compound

through contact with the USEPA that they have not received a Notice of Intent (NOI) for storm water discharges from Xenotechnix (Ignacio 1998).

The Navy NPDES permit No. GU0000035 for the floating drydock AFDM-8 expired on February 16, 1996. The Navy submitted an NOI for the floating drydock AFDM-5; however, this drydock is currently idle. The NPDES permit for the drydocks has been transferred by the Pacific Insular Area Program of the USEPA Region IX to Xenotechnix. This permit expires in 2001. The information presented in this section supersedes or augments Section 4.1.2.12, Section 4.2.2.12, and Section 5.8 of the EBS report (Ogden 1997b).

2.1.9 Potable Water

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 4.1.2.13 or 4.2.2.13 or other potable water contamination sections included in the EBS report (Ogden 1997b). The ground water beneath the SRF Waterfront and Inland sites is not potable.

2.1.10 Air Emissions

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 5.9 or other air emissions sections included in the EBS report with the exception that the Navy reapplied for the two permits that expired on December 31, 1997. These permit applications are being reviewed by GEPA. All terms and conditions of the previous permits remain in effect (Ogden 1997b; Koki 1998b).

2.1.11 Pesticide Management

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 5.5 or other pesticide management sections included in the EBS report (Ogden 1997b).

2.1.12 Oil/Water Separators

Four OWSs are located within the Industrial Area. No releases associated with the OWSs were identified during the final EBS activities, with the exception of an apparent release associated with a former UST (UST 18) used as the final stage of an OWS system at Building 27. Additional information regarding this release is presented in Section 2.1.1. (Ogden 1997b). Table 2-6 lists the location and summarizes the status of these OWSs.

Table 2-6

OIL/WATER SEPARATOR STATUS
SRF INDUSTRIAL AREA

Location	Status
Building 20 Production Shop	Inactive/Closed
Building 20 Production Shop	Inactive/Not Closed
Building 21 Pipefitting Shop	Inactive/Not Closed
Building 27 Boiler Room	Active

2.1.13 Radioactive Material

This section presents changes to the information presented in the EBS report for radioactive material. The information presented below supersedes or augments Section 4.2.2.10 of the EBS report (Ogden 1997b).

Building 2108 (located in the SRF Industrial Area) contains a piece of analytical equipment with a calibration check source (i.e., a gas chromatograph [GC] with a Nickel 63 calibration source) that is sealed and controlled. This building formerly contained two

similar GCs; however, one of the GCs was transferred to the Public Works Center (PWC) Guam Fena Laboratory in August 1997 (Koki 1998d).

2.1.14 Mixed Waste

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 4.2.2.11 of the EBS report (Ogden 1997b).

2.1.15 Medical/Biohazardous Waste

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 4.1.2.5 or Section 4.2.2.5 of the EBS report (Ogden 1997b).

2.1.16 Ordnance

Based on interviews, document review, and a physical reconnaissance, there are no changes to Section 4.1.2.6 or Section 4.2.2.6 of the EBS report (Ogden 1997b).

2.1.17 Installation Restoration Program Sites

This section presents changes to the information regarding the IRP sites at the SRF Inland site (IRP-01 Area Behind the Fenceline) and SRF Waterfront Industrial Area (IRP-02 Plating Shop Leach Field). The Plating Shop Installation Restoration (IR) site was formerly known as SWMU #37. The activities conducted since the September 1996 (revised February 1997) EBS report are summarized in Table 2-7. The information presented in Table 2-7 supersedes or augments Section 4.1.2.3, Section 4.2.2.3, and Section 5.3.2 of the EBS report.

2.2 ADJACENT PROPERTIES

There are no changes to the adjacent properties presented in the EBS report.

Table 2-7

STATUS OF IRP SITES AT THE SRF INLAND AND WATERFRONT SITES

Site	IRP Site No.	Location	Status
SRF Inland Site			
	IRP-01	Area Behind the Fenceline	This IRP site is described in Section 4.1.2.3 of the September 1996 (revised February 1997) EBS report. The RI report recommended a removal action for the southeastern portion of the site and additional investigations for other areas in the southern portion of the IRP site (Ogden 1995). RSE activities are expected to begin in 1998 (Ogden 1997b).
SRF Waterfront Site			
	IRP-02	Plating Shop Leach Field	This IRP site is described in Section 4.2.2.3 of the September 1996 (revised February 1997) EBS report. The RI report concluded that there are no complete exposure pathways to human or ecological receptors at this site since fate and transport calculations results indicate that the chromium concentrations are likely to be reduced by approximately 10,000 times from the source within the leach field to Inner Apra Harbor, located 400 feet to the east (Ogden 1995). A No Further Action determination was therefore recommended for the Plating Shop Leach Field IRP site. However, the BCT is concerned about potential exposure to hexavalent chromium at onsite hot spots. The BCT, therefore, concurred with performing hot spot removal of soil impacted by elevated concentrations of hexavalent chromium (BCT 1997). The removal action will also include the removal of the leach lines and impacted sediments. A draft EE/CA will be submitted by the Navy for review by the USEPA and GEPA. It is proposed that the EE/CA include alternatives to the disposal of the excavated contaminated soil, including stabilization and in place disposal and capping.

BCT = BRAC Cleanup Team
EBS = Environmental Baseline Study
EE/CA = Engineering Evaluation/Cost Analysis
GEPA = Guam Environmental Protection Agency
IRP = Installation Restoration Program
RI = Remedial Investigation
RSE = Removal Site Evaluation
USEPA = U.S. Environmental Protection Agency

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SECTION 3
SITE CATEGORIZATION AND RECOMMENDATIONS

This section presents changes to the ECP categories for the SRF Inland and SRF Waterfront sites, as well as a summary of the ECP categories and the compliance status of each property. Changes to the ECP categories are based on activities that have occurred at SRF since the EBS report (Ogden 1997b) and the September 1996 ECP category definitions (DoD 1996). The information included in this EBS addendum report updates the applicable sections of the EBS report.

3.1 ENVIRONMENTAL CONDITION OF PROPERTY

Based on the history of the property, the areas of potential contamination, and the reported regulatory compliance status, seven ECP categories have been developed to assess whether the current condition of the property or a portion of the property is suitable for transfer or lease. The ECP category definitions, as described in the September 1996 Addendum to the Fall 1995 BRAC Cleanup Plan Guidebook, are as follows (DoD 1996):

Category 1 - Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas).

Category 2 - Areas where only release or disposal of petroleum products has occurred.

Category 3 - Areas where release of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action.

Category 4 - Areas where release of hazardous substances has occurred, and all remedial actions necessary to protect human health and the environment have been taken.

Category 5 - Areas where release of hazardous substances has occurred, and removal or remedial actions are underway, but all required remedial actions have not yet been taken.

Category 6 - Areas where release of hazardous substances has occurred, but required actions have not yet been implemented.

Category 7 - Areas that are not evaluated or require additional evaluation.

The ECP category definitions listed above supersede the ECP category definitions presented in the EBS report (Ogden 1997b). Changes to the ECP categories as a result of the changes to the ECP category definitions and/or site conditions are described in Table 3-1. Additionally, Figures A-1, A-2, and A-3 included in Appendix A illustrate the ECP category designations at the SRF Inland and the SRF Waterfront (Industrial Area and Drydock Island) sites.

3.2 SUMMARY AND RECOMMENDATIONS

Table 3-1 summarizes the changes to the ECP categories at the SRF Inland and Waterfront sites. Changes to the compliance issues at the Industrial Area (as described in Section 2 of this EBS addendum report) are summarized in Table 3-2; there are no changes to the potential areas of concern at the Inland site or Drydock Island. Table 3-3 lists ECP categories and recommendations for the SRF parcels evaluated in the September 1996 (revised February 1997) EBS report.

Table 3-1

ECP CATEGORIES AT THE SRF INLAND AND WATERFRONT SITES

Site/ Map Ref.	Location	Previous ECP Category	ECP Category	Status
SRF Inland Site				
A-1	Abandoned USTs Near Sumay Marina	5	7	An RI conducted in 1995 did not discover evidence of a release from the three USTs located on northern portion of site near the Sumay Marina (Ogden 1995). Potential contamination related to these USTs will be assessed during their removal. This area was designated as ECP Category 5 in the Final EBS (Ogden 1997b). According to the new ECP category definitions, the Abandoned UST area is designated as ECP Category 7, since further evaluation regarding potential releases will be conducted during the tank removal activities. This category change supersedes the Executive Summary and Section 4.1.5 of the EBS report.
A-1	Sand Blast Grit and Loop Road Disposal Area	6	6	There are no changes to the site conditions or the ECP category of this area.
A-1	South Wetland Area	7	6	The RI recommended additional sample collection and a removal action of contaminated sediments in the wetlands adjacent to the Sandblast Grit Peninsula and the Looped Road Disposal Area (Ogden 1995). The ECP category changed to ECP Category 6 because a release of hazardous substances has occurred in the South Wetland Area, but required actions have not yet been implemented. This category change supersedes the Executive Summary and Section 4.1.5 of the EBS report.
A-1	The Remainder of the SRF Inland Site (IRP-01)	7	7	The Area Behind the Fenceline IRP (IRP-01) site encompasses the SRF Inland site. The RI report prepared for the Area Behind the Fenceline recommended a removal action for the southeastern portion of the site and additional investigations for other areas in the southern portion of the IRP site (Ogden 1995). RSE activities are expected to begin in 1998 (Ogden 1997b). Therefore, there is no change to the ECP category for the remainder of the SRF Inland site.

Table 3-1 (Continued)

ECP CATEGORIES AT THE SRF INLAND AND WATERFRONT SITES

Site/ Map Ref.	Location	Previous ECP Category	ECP Category	Status
Industrial Area				
A-2	SWMUs #36, #38, #39, #40 , #42, #43, and #45	7	7	Based on the soil and ground-water analytical results presented in the Draft RFI report dated February 1997, no corrective measures are recommended for site soil or ground water at any of the SWMUs. USEPA, however, has identified concerns regarding potential ground-water contamination with respect to SWMUs #36, #38, and #39. A No Further Action determination has not yet been approved by GEPA or USEPA (Ogden 1997a). Because the RFI report is a draft and the conclusions and recommendations have not been reviewed and concurred with by the regulatory agencies, the ECP categories for SWMUs #36, #38, #39, #40 , #42, #43, and #45 remain unchanged.
A-2	Plating Shop Leach Field Site (IRP-02)	7	7	The RI report concluded that there are no exposure pathways to human or ecological receptors at this site. Fate and transport calculations results indicate that the chromium concentrations are likely to be reduced by approximately 10,000 times from the source within the leach field to Inner Apra Harbor, located 400 feet to the east (Ogden 1995); therefore, a No Further Action determination was recommended for the Plating Shop Leach Field IRP site. However, the BCT is concerned about potential exposure to hexavalent chromium at onsite hot spots. The BCT, therefore, concurred with performing hot spot removal of soil impacted by elevated concentrations of hexavalent chromium (BCT 1997). The removal action will also include the removal of the leach lines and impacted sediments. A draft EE/CA will be submitted by the Navy for review by the USEPA and GEPA. It is proposed that the EE/CA include alternatives to the disposal of the excavated contaminated soil, including stabilization and in place disposal and capping. Therefore, the ECP category at this IRP site remains unchanged.
A-2	Substation L (located adjacent to Lima Wharf)	4	4	There are no changes to the site conditions or the ECP category of this area.

Table 3-1 (Continued)

ECP CATEGORIES AT THE SRF INLAND AND WATERFRONT SITES

Site/ Map Ref.	Location	Previous ECP Category	ECP Category	Status
A-2	SWMU #51	7	7	SWMU #51 was identified in a letter to the GEPA from PACNAVFACENGCOM dated February 6, 1997. The area of concern is located within Building 30 and is approximately 30 feet wide by 40 feet long by 3 feet deep (Ogden 1997d). In February 1997, the Navy conducted an ICM at SWMU #51 that consisted of the removal of sand from the casting pit. In September 1997, the Navy collected RFI verification samples to assess whether the ICM can serve as the final corrective measure for the site. The verification samples contained detectable concentrations of metals, but the results are within the acceptable risk range for industrial and residential settings. Because the ICM Verification Sampling report is a draft and the conclusions and recommendations have not been reviewed and concurred with by the regulatory agencies, the ECP category for SWMU #51 is designated as ECP Category 7.
A-2	Building 27 Former UST Location	2	2	One UST located adjacent to the east of Building 27 was removed in September 1996. During the tank removal visible staining and hydrocarbon odors were noted. The former UST location is designated as ECP Category 2 because a petroleum release has likely occurred. Site assessment activities at Building 27 commenced in April 1998.
A-2	Building 2072 Former UST Locations	2	2	Two USTs located at Building 2072 were removed in March 1997. An assessment of potential petroleum contamination at these former UST locations commenced in April 1998. Because a petroleum release may have occurred from these USTs, this area is designated as ECP Category 2.
A-2	Building 30 Former UST Location	2	2	One UST located at Building 30 was removed in March 1997. The Navy has conducted site assessment activities. Sample concentrations are less than GEPA-specified criteria. Therefore, no further site assessment activities are proposed by the Navy. Because a No Further Action concurrence has not yet been obtained from the GEPA and USEPA, this area is designated as ECP Category 2.
A-2	The Remainder of the Industrial Area	2	1	There is no documentation or visual evidence to indicate that a hazardous substance or petroleum product release, disposal, or migration from adjacent areas has occurred. This ECP category changed from ECP Category 2 to 1 because of a change in the ECP category definitions (DoD 1996). This category change supersedes the Executive Summary and Section 4.2.5 of the EBS report.

Table 3-1 (Continued)

ECP CATEGORIES AT THE SRF INLAND AND WATERFRONT SITES

Site/ Map Ref.	Location	Previous ECP Category	ECP Category	Status
Drydock Island				
A-3	Electrical Substations	2	1	The two active electrical substations at Drydock Island no longer qualify as ECP Category 2 because of a change in the ECP category definitions (DoD 1996). There is no documentation or visual evidence to indicate that a hazardous substance or petroleum product release, disposal, or migration from adjacent areas has occurred at these substations. This category change supersedes the Executive Summary and Section 4.2.5 of the EBS report.
A-3	The Remainder of Drydock Island	1	1	There are no changes to the site conditions or the ECP category for the remainder of Drydock Island.

Note: Site maps are included in Appendix A.

BCT = BRAC Cleanup Team
DoD = Department of Defense
EBS = Environmental Baseline Survey
ECP = Environmental Condition of Property
EE/CA = Engineering Evaluation/Cost Analysis
GEPA = Guam Environmental Protection Agency
ICM = Interim Corrective Measure
IRP = Installation Restoration Program
PACNAVFACENGCOM = Pacific Division Naval Facilities Engineering Command
RFI = RCRA Facility Investigation
RI = Remedial Investigation
RSE = Removal Site Evaluation
SRF = Ship Repair Facility
SWMU = Solid Waste Management Unit
USEPA = U.S. Environmental Protection Agency
UST = Underground Storage Tank

Table 3-2

SUMMARY OF NEW COMPLIANCE ISSUES AT THE SRF INDUSTRIAL AREA

Compliance Area	Status: Industrial Area	Regulatory Program
Underground Storage Tanks (USTs)	Three USTs located at the Industrial Area have been removed. An assessment of these UST sites is in progress or completed. Following site assessment, the UST sites will be remediated, if necessary, by the Navy. A fourth UST (UST 18) was formerly located adjacent to the east of Building 27 at the Industrial Area. UST 18, a 250-gallon concrete tank, was installed in 1968 as the final stage of an oil/water separator system that collected steam condensate and waste oil slops. The tank has been cleaned and demolished. Some visible staining and oil odor were apparent at the site during excavation and demolition (Nexus 1997). The Navy has conducted site assessment activities. Sample concentrations are less than GEPA-specified criteria. Therefore, no further site assessment activities are proposed by the Navy. A new 550-gallon, double-walled, fiberglass UST was installed in 1997 as a replacement to UST 18.	40 CFR 112, 40 CFR 280, Title 10 GCA chapter 88, Revised Guam Water Quality Standards Subsection H (Section III), 42 USC Section 6991, Guam Underground Storage of Hazardous Substance Act
Aboveground Storage Tanks (ASTs)	There are currently ten ASTs located at the Industrial Area. These ASTs are used for the storage of diesel, gasoline, and fuel oil. No releases associated with these ASTs were identified during the EBS activities. The Navy will transfer or remove all ASTs and any POL contained therein. If the tanks are removed, the Navy will assess and remediate contamination if encountered.	40 CFR 112, 40 CFR 280, Title 10 GCA chapter 88, Revised Guam Water Quality Standards Subsection H (Section III), 42 USC Section 6991
Hazardous Substances Management	Hazardous substances currently used onsite are for industrial purposes. All unused hazardous materials will be shipped offsite.	40 CFR 260 through 40 CFR 280, 40 CFR 300 et seq., 49 CFR, 29 CFR, and Guam's Hazardous Waste Management Regulations

Table 3-2 (Continued)

SUMMARY OF NEW COMPLIANCE ISSUES AT THE SRF INDUSTRIAL AREA

Compliance Area	Status: Industrial Area	Regulatory Program
Polychlorinated Biphenyls (PCBs)	All transformers with PCB-contaminated oils at the Industrial Area have been retrofilled, tested, and redesignated as non-PCB pursuant to 40 CFR 761.30(a)(2)(v) (Rhoden 1997, 1998). There are no compliace issues associated with PCBs at the Industrial Area.	TSCA, 40 CFR 761, Subpart D
Asbestos	The Navy will implement the SRF O&M Plan to manage in-place asbestos. Damaged, friable asbestos has been abated by the Navy. All available information on the existence, extent, and condition of the asbestos will be disclosed prior to propery transfer or lease.	NESHAP, TSCA Title 2, DoD Asbestos Control Program, 29 CFR 1910.1001 and 29 CFR 1926.1101, 40 CFR 61.141
RCRA Facilities	RFI field work was completed in July 1996 for seven SWMUs (#36, #38, #39, #40, #42, #43, and #45). The USEPA and GEPA have tentatively agreed to close out each SWMU that does not require any further action. A regional ground-water investigation is planned to assess ground-water quality and potential risk to ecological receptors due to potential elevated concentrations of metals in ground water beneath SRF. An RFI was not conducted at SWMU #51. An ICM was completed at SWMU #51 in 1997. No Further Action determinations have been proposed based on the sampling results but have not been approved by GEPA and USEPA.	RCRA, 40 CFR 264

Table 3-2 (Continued)

SUMMARY OF NEW COMPLIANCE ISSUES AT THE SRF INDUSTRIAL AREA

Compliance Area	Status: Industrial Area	Regulatory Program
Wastewater/Storm Water Discharge and NPDES Permits	Industrial wastewater is collected and routed to a Navy-owned primary treatment plant at Orote Point. The Navy is currently in the process of obtaining a group storm water discharge permit that will include the SRF Industrial Area site storm water outfalls. The NPDES permit for the floating drydocks has been transferred to Xenotechnix. The Navy reapplied for the baseline industrial storm water permit and plans to convert to the modified multi-sector permit once promulgated. It is understood through contact with the USEPA that they have not received an NOI for storm water discharges from Xenotechnix. This permit must also be transferred or closed as part of closure-related activities.	USEPA, COMNAVMARIANAS Discharge Regulations, Guam Water Quality Standards, GWA Pretreatment Requirements/Standards
Oil/Water Separators	There are four oil/water separators within the Industrial Area. Two oil/water separators, one of which is inactive and has been plugged, are located within Building 20, the third is located within Building 21, and the fourth adjacent to Building 27. No releases associated with the oil/water separators were identified during the EBS activities (Ogden 1997b). There are no compliance issues associated with the oil/water separators.	Guam Hazardous Waste Management Regulations and Guam Water Quality Standards. RCRA 42 USC (Section 6901, et seq.)
Radioactive Materials	Building 2108 contains a piece of analytical equipment with a calibration check source (i.e., a gas chromatograph [GC] with a Nickel 63 Calibration Source) that is sealed and controlled. This piece of equipment must be transferred or removed in accordance with appropriate radiation protection procedures.	10 CFR 20

Table 3-2 (Continued)

SUMMARY OF NEW COMPLIANCE ISSUES AT THE SRF INDUSTRIAL AREA

Compliance Area	Status: Industrial Area	Regulatory Program
Installation Restoration Program (IRP) Sites	RSE activities are expected to begin in 1998 for the Area Behind the Fenceline IRP site. A No Further Action determination was therefore recommended for the Plating Shop Leach Field IRP site. However, the BCT is concerned about potential exposure to hexavalent chromium at onsite hot spots. The BCT, therefore, concurred with performing hot spot removal of soil impacted by elevated concentrations of hexavalent chromium. The removal action will also include the removal of the leach lines and impacted sediments. A draft EE/CA will be submitted by the Navy for review by USEPA and GEPA. It is proposed that the EE/CA include alternatives to the disposal of the excavated contaminated soil, including stabilization and in-place disposal and capping.	CERCLA

AST = Aboveground Storage Tank
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
CFR = Code of Federal Regulations
COMNAVMARIANAS = Commander U.S. Naval Forces Marianas
EBS = Environmental Baseline Survey
EE/CA = Engineering Evaluation/Cost Analysis
GEPA = Guam Environmental Protection Agency
GWA = Guam Water Authority
ICM = Interim Corrective Measure
NESHAP = National Emission Standards for Hazardous Air Pollutants
NOI = Notice of Intent
NPDES = National Pollutant Discharge Elimination System
O&M = Operations and Maintenance
POL = Petroleum, Oil, and Lubricants
RCRA = Resource Conservation and Recovery Act
RFI = Remedial Investigation
RSE = Removal Site Evaluation
SRF = Ship Repair Facility
SWMU = Solid Waste Management Unit
USC = United States Code
USEPA = U.S. Environmental Protection Agency
UST = Underground Storage Tank

Table 3-3

SUMMARY OF SITE CATEGORIZATIONS AND RECOMMENDATIONS FOR THE SRF INLAND AND WATERFRONT SITES

Site Name	ECP Category 1	2	3	4	5	6	7	Recommendations
SRF Inland Site						X	X	Notification of storage of hazardous substances/petroleum products. Investigation and possibly remedial action at IRP-01 and at the UST sites. Notification of the potential presence of ordnance.
Industrial Area	X	X		X			X	Notification of storage of hazardous substances/petroleum products. Investigation and possibly remedial action at the former UST sites. Notification of the presence of asbestos. Notification of the potential presence of lead-based paint. Notification of the potential presence of elevated levels of radon. Notification of the potential presence of ordnance. Notification of the use of equipment containing radioactive components.
Drydock Island	X							Notification of storage of hazardous substances/petroleum products. Notification of the potential presence of ordnance.

ECP = Environmental Condition of Property
IRP = Installation Restoration Program

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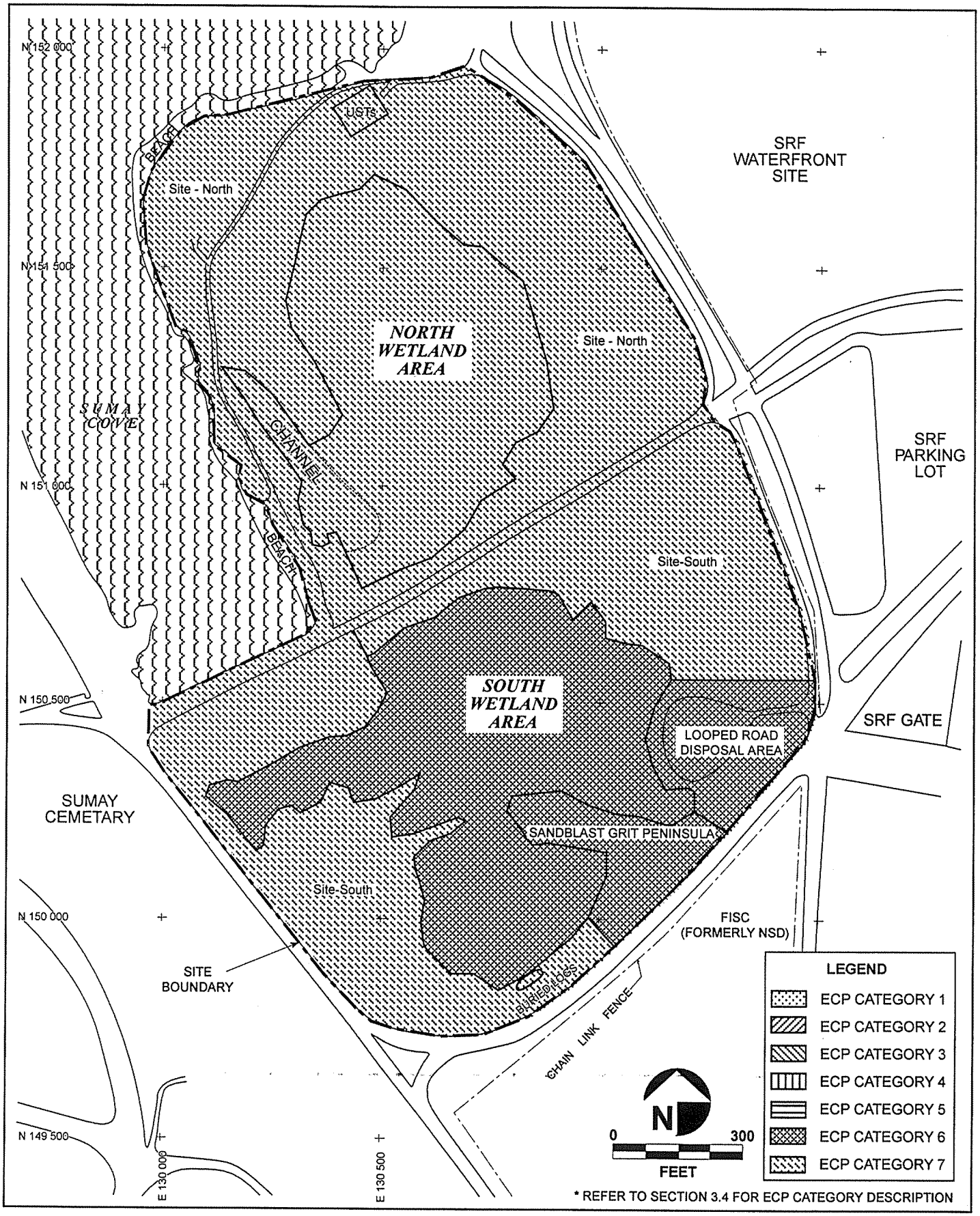
APPENDIX A

DETAILED SITE DESCRIPTION MAPS

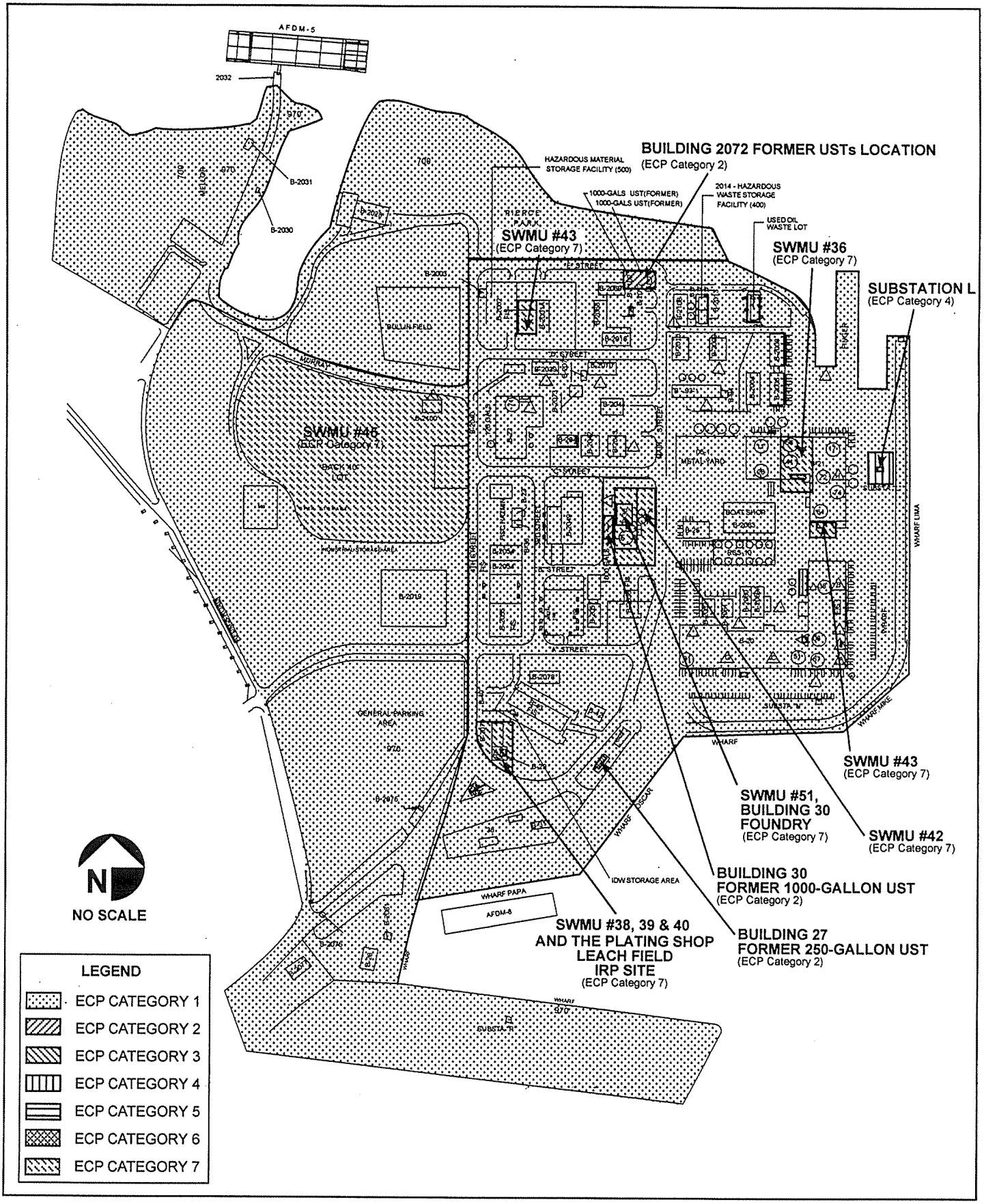


OGDEN

Environmental Condition of Property (ECP)
SRF Inland Site

FIGURE
A-1

File Name: E:\Navy Clean\San Diego Navy Clean\CTO 201\SRF_Update\SRF Inland Color.fh5



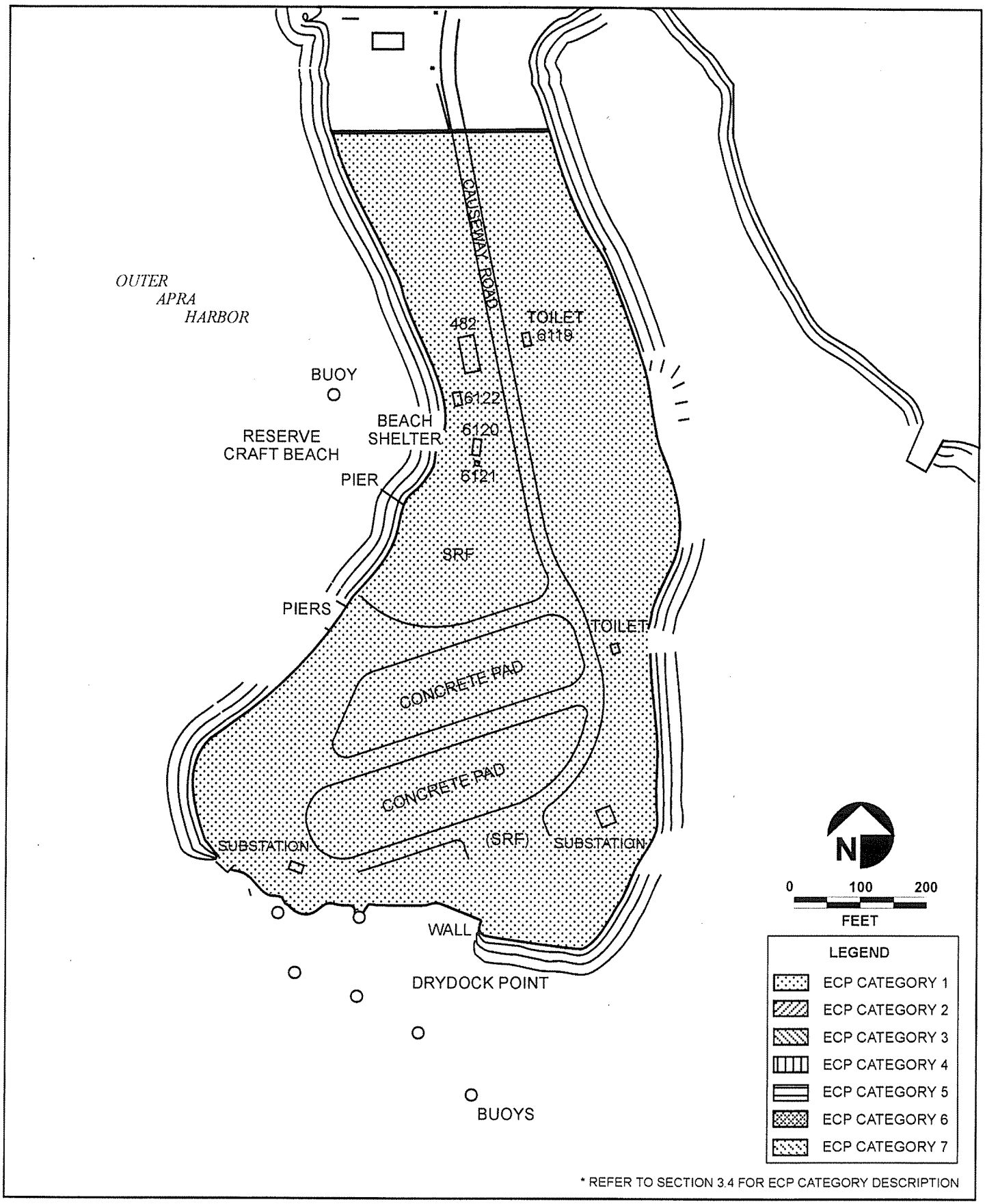
OGDEN

Environmental Condition of Property (ECP)
SRF Industrial Area Site
SRF Guam

FIGURE

A-2

File Name: e:\Navy Clean\San Diego Clean\CTO 201**Figure A-2.Fh5**



FIGURE

A-3

Environmental Condition of Property (ECP)
Drydock Island
SRF Guam

File Name: e:\Navy Clean\San Diego Clean\CTO 201\STDWTR Color.fh5

APPENDIX B

FIELD NOTES, RECORDS OF CONVERSATION, AND CORRESPONDENCE

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/8/97 PHONE #: (671) 339-7051 PROJECT#: 11019201.0177

PERSON CONTACTED: Brock Durig

TITLE/AFFILIATION: Environmental Compliance Director - COMNAVMAR

RECORDED BY: Charmaine Cosky

SUBJECT: EBS Update

NAVACTS Volume I

Harmon Annex
PCB-containing oil (23 ppm max in transformer) cleanup last month 8 or 10 55-g drums of soil w/ PCBs
Max was 8 ppm @ 3", 1.__ppm@6", ___ppm @ 2'.
Drums at HW storage lot Bldg. 464
PWC will dispose of at the PWC thermal desorption facility.
Cleaned the pad. No confirmation sampling.
USTs - no change since USTs.

Parcel 5D @ Barrigada
Bldg. has copper covered by asbestos. Asbestos torn off. Cu stolen.
Transformer (non PCB) turned over onto soil.
Durig submitted a work order to have the torn down asbestos and oil-contaminated soil removed.

Nimitz Hill Vacant Lands Site
35" rain in Aug. Jet Fuel release from nearby plane crash partially cleaned up. Hit an abandoned pipeline that connected between Apra Harbor/Tenjo Valley/NAS.

Polaris Point
Semi active pipelines for WW & oily water conveyance.

Rizal Beach
Adj. → IR site - NEX garage; PWC Landfill
Cat 7 due to off-site landfill. Talk to Tony Roberson

NAVACTS Ordnance Annex, North Parcel
Stream goes thru prop, people dump over hill paint cans.

Bldg. 4175
Changing SW drainage
Friable asbestos - gone
LBP in bathroom tiles - gone
Asbestos floor tiles (mastic) removed some & covered others with carpet
Southern High School - clean up - removed soil from this area. - 3 reports.

Nimitz Hill Fire Station
Gas station island with pumps - Eric Shigaki

New Apra Heights - Expansion
Sewage (sanitary) pipeline installed in 1997 during typhoons over a number of months.
EA conducted. Ordnance encountered HW area with signs on left side of road along old Apra Rd. SE portion of property. (2 years signs have been there)

PWC - talk to Roberson & Cruz
Former FAA Parcel - Roberson

Nimitz Hill Bldg. 200
WWII Human remains found in June 1997. Removed from cave in southern portion of property.
Talk to Jennings Bunn.

1 or 2 USTs removed early 1997
1 or 2 USTs to be removed
OHM removals
1 large AST in place. Stores diesel maybe 3000 G

Radon results - Roberson referred us to Brock or PACDIV

public water - no wells

2 generator - air pollution permit
day tanks with generators approx. 50 G

part of SPCC inspection...

Check back with Brock on Bldg. 200

NAVACTS Volume II

NAVACTS Area 3 Site
Asbestos survey of Bldg. 3151 and old steam plant by PWC
Area 4 Site - done with PCB investigation. Talk to Tony Roberson.

NAVACTS - Tony & Hiphil
Area 4 Drum Storage Area - had Durig overpack leaking drums.

Area 5
NAVACTS air permit kept with Durig
ECP Cat 3 DRMO stores non-regulated waste behind 3180
Morgue & belongings from plane crash in 3179, K18-K20.

FISC

Sasa Valley Parcel 28a
SV/TV - SW removal discovered 8/21/97, 3 weeks ago. 300 UXO mortars. GEPA is aware of it, now wants Navy to do UXO sweeps of all properties. Brock has a message on this matter. Talk to Tony/PWC.

SV Tank Farm
Field constructed fuel tanks. PWC was initial responder.
Mar-May 1997 - Carrier uses fuel lines for WW & only WW, black oil 3 & 4-in recently cleaned right before using for sewage.
Sewage pumped along Marine Drive.
Another carrier in April 1998.

SRF

Blaise Koki
LCAC - Landing Craft Air Cushion - carrier at Ecco Wharf

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/8/97 PHONE #: (671) 339-7051 PROJECT#: 11019201.0177

PERSON CONTACTED: Brock Durig (Brock's pager 476-1627)

TITLE/AFFILIATION: Environmental Compliance Director - COMNAVMAR

RECORDED BY: Jennifer Valenzia

SUBJECT: EBS Update

NAVACTS Volume I

Harmon Annex
- PCB transformer spilled
- transformer vandalized spilled oil
- filled 8 to 10 55-g drums with contaminated soil
- Eric Shigaki has info.
- Drums @ Bldg. 464 drum storage lot
    - will be disposed of @ thermal desorption unit
- clean up July 1997
- Max PCB concentration in soil 8 ppm
    - removed
    - no confirmation sampling
- No other changes
- No further investigation of leach field or former UST location

Parcel N5d
- Bldg. vandalized
    - tore out asbestos from bldg.
        - asbestos on ground
        - stole copper
    - turned over transformer (no PCBs)
        - issued work order to clean-up oil spill and asbestos

NCTAMS Barrigada Parcel N5b
- see e-mail dated 9/6/97
- possible contamination near Bldg. 99

Nimitz Hill Vacant Lands
- plane crash Aug. 6, 1997 on nearby land
- most of remnants have been removed
- plane hit an abandoned pipeline
    - not much leaked
- have cleaned up most of jet fuel
- 35 in. rain in July - most washed away

Polaris Point
- pipelines semi-active (see Tenjo Vista)

Route 2A
- Investigation July 1997
- talk to Eric Wetzstein

Rizal Beach
- talk to Tony Roberson

NAVACTS Ordnance Annex North Parcel
- not aware of any changes or investigations

Bldg. 4175 Parcel
- DODEA (DOD Education Activity)
- temp. elementary school (2 yrs.)
- asbestos
- LBP in bathroom tiles remove
- ask Peter Toves for design plans

Nimitz Hill Enlisted Housing
- PACDIV investigated PWC Annex and Gas Station
- Eric Shigaki has information

New Apra Heights Three Quonsets
- new sewer pipeline
    - found ordnance
    - Tony Roberson
- Hazardous waste signs may be on SE portion of property
    - talk to Peter Toves

Former FAA Parcel
- Talk to Tony Roberson

Marine Drive 1, Marine Drive 2

COMNAVMAR Bldg. 200
- found WWII human remains June 1997
- remnants (i.e., gas masks) and remains removed
- removed 2 UST
- 2 USTs suspected behind Fleet Weather
- UST reports available @ Brock's office
- one AST used to store diesel
- results of radon study available
- asbestos and LBP
- 2 generators
- dry tanks approx. 50 gal.
- part of SPCC inspection

Old Apra Heights
- not aware of spills or issues affecting parcel

SRF Inland SAC
- fenceline boundaries Δing
- talk to Blaise Koki

NAVACTS Volume II

NAVACTS Area 1
Sumay Cemetery

Area 3
- asbestos survey in progress @ 3151, 3114
    - steam generation plant
    - PWC conducting study

Area 4
- Tony Roberson - status of Bldg. 3009 PCB investigation
- Drum lot - leaking drums

Area 5
- Bldg. 1168
    - DRMO stores non-regulated waste
- 3179 - morgue associated with crash
    K18 thru K20 belongings from plane crash

FISC

Tenjo Vista
- Tony Roberson
- Abandoned vehicles & mortars discovered approx. 3 weeks (approx. Aug. 20, 1997)
- GEPA knows
    - wants ordnance sweeps of all properties
- Sasa Valley Tank Farm
    - Field constructed tanks
        - tanks have leaked
        - PWc has filed

Semi-active - plan to open three 4' lines parallel
    - Marine Dr. have been used to transport sewage & oily waste water from a carrier to Polaris Pt.
    - Plan to open officially April 1998
    - Cleaned pipeline March or April 1997

SRF

Dry Dock Island
- Carrier @ Echo Warf
- Elcax maneuvers next Tues.

Industrial Area
- all contractor operated
- leased 7/4/97

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/8/97 PHONE #: (671) 339-5241 PROJECT#: 11019201.0177

PERSON CONTACTED: Peter Toves

TITLE/AFFILIATION: Engineer - COMNAVMAR

RECORDED BY: Charmaine Cosky

SUBJECT: EBS Update

NAVACTS Volume I

NAVACTS → COMNAVMAR
FISC → COMNAVMAR Oct. 1
PWC maybe later "
NCTAMS plans → COMNAVMAR Oct. 1 - none affected.

★ Update Ownership from NAVACTS → COMNAVMAR

Bldg. 4175 COMNAVMAR
No longer vacant - converted to DOD-owned elementary school 9/24/97
Abatement for LBP & asbestos - removed - Commander Lister @ OICC; Lt. Joe Greeson (by contractor)

Bldg. 200 to be opened 9/29/97 - DOD-owned high school
POC Ensign Matt McCab @ PWC OICC
PWC Mark Cruz → PWC Mark Cruz & Tony Roberson
floor tiles with asbestos
painted over a wall
PWC putting together a management report, a plan of what was done -
covered asbestos with carpet (i.e.)
Radon survey conducted on these bldgs.
Land use changes with the other existing parcels - not anything noteworthy.

• New Apra Heights -
Quonset hut warehouses used to storage materials taken from Bldgs. 200 & 4175. More intensely used.

Bldg. 4175
LB (lead-based paint) in demolished shower tiles - high in total Pb - only lead hit
339-3170 Flo
Contact Vicky @ Safety Office. Asbestos & LBP testing. Flo Penglian (Head of Safety)

New Apra Heights - Expansion
Primarily vacant land was known as Base 18 Hospital Site and supporting units.
Will Chee & Assoc. study for Southern High School talk about reservoir (good history)
PACDIV may have a copy.

Aerial Photos
MARC @ Univ. of Guam (Margie Driver, Dirk Ballendorf)
COMNAVMAR - Peter Toves files

Site Plans/Maps
PWC Code 900

NAVACTS Volume II

Area 1 extra roadways not necessary, will be within project boundaries (no need to transfer)

Area 7 end portion of additional road (past intersection) is not owned by Navy. Do not include.

FISC

Sasa Valley Parcel 28A
FISC environmental people Lt. Morgan Sheppard Roy Tsutsui
FISC uncovered a huge area where people had disposed of abandoned vehicles. Discovered 3 or 4 months ago. Removed bumped vehicles, discovered bundles UXO. Talk to Roy. 600 mortars on Tenjo Vista.

Cpt. Lofaso (N4)
Peter - Facilities Planning & RE
CDR Jagoe - Head of Env. - Roy Brock- Regional Environmental Coordinator - daily
LT CDR Tom Saterly - Fac. Maint.

Sasa Valley Parcel 28a
Cemetery boundary goes further east into new parcel. Vacant land.
A portion of Parcel 28a was transferred to GOVGUAM as part of veteran's cemetery.

Talk to PACDIV re (Eric Shigaki) Ron Darlington (sp?) Ken Alexanderson
need boundary map for property that was transferred to GOVGUAM.

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/8/97 PHONE #: (671) 339-5241 PROJECT#: 11019201.0177

PERSON CONTACTED: Peter Toves

TITLE/AFFILIATION: Engineer - COMNAVMAR

RECORDED BY: Jennifer Valenzia

SUBJECT: EBS Update

NAVACTS Volume I

Bldg. 4175 - no longer vacant
converting to elementary school
opening 9/27/97
DOD school

Bldg. 200 COMNAVMAR
converting to high school
opening 9/29/97
DOD school
Nat Mead OICC

Bldg. 4175
abated asbestos
Contacts Cmdr. Lister @ OICC - asbestos
Lt. Greeson - asbestos
Mark Cruz - LBP
- preparing Haz. Sub. Mngt. Plan
- Ask about Radon survey
LBP
No land use changes as with other properties

New Apra Hts., Three Quonsets
- Used for warehouse
- store office equipment

Three Quonset Expansion
- Primarily vacant land since before 1950s
- Former Hospital site (Base 18)

Southern High School
- Will Chee & Assoc. report
- PACDIV - Eric should have

FISC

Sasa Valley Parcel 28a

Lt. Morgan Shepard POC

Tenjo Vista
- 3 to 4 mos. ago discovered abandoned vehicles
- in process of disposing of vehicles discovered

Dept. Mngrs of COMNAVMAR (4 dept.)
CPT Lofaso
Pete Toves - Head of Facilities Planning & Real Estate
CDR Jagoe - Head of Envir. for COMNAVMAR
Roy Brock - Regional Env. Coord. responsible for clean ups
LT CDR Tom Salterly - Fac. Maint.

Flo and Vicki @ Safety 339-3179
Collect LBS & Asbestos samples for Bldgs. 4175 & 200, LBP & Asbestos

Sasa Valley Parcel 28a
- vacant
- cemetery may extend into parcel
- portion of Parcel 28a may have been transferred to GOVGUAM as part of veterans cemetery
- Talk to Eric
- Ask Real Estate for property boundaries of veterans cemetery
- Ken Alexanderson & Ron Darlington

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/9/97

PHONE #: (671) 339-7181
FAX: (671) 339-3272
E-MAIL: rhodenl@pwc.guam.navy.mil

PROJECT#: 11019201.0177

PERSON CONTACTED: Larry Rhoden

TITLE/AFFILIATION: Electrical Engineer - PWC Utilities

RECORDED BY: Charmaine Cosky

SUBJECT: PCB Information

NAVACTS Volume I

New Apra Heights - 3 Quonset Huts
Some small transformers but no PCBs. Single transformers on pole on site. Note: Only 1 PCB transformer on NCTAMS property is scheduled for retrofilling @ transmitter station. Goal for non-PCB transformers using 50 ppm PCBs (49 ppm & below).

Harmon Annex
Recalled transformer dumped and stripped for Cu. Nothing recent though with PCB transformers. Switch gear, oil-filled with PCBs removed and replaced about 5 years ago.

New Apra - all densely vegetated

Polaris Point - north portion mangroves.

Route 2A - No longer used for buses, GovGuam operates.

4175 - Removed PCB-transformer from the back, about 5 years ago.

Three Quonset Huts - Heavy jungle

Fire Station - 3 transformers - no PCB, no spill

COMNAVMAR
Removed 3 PCB transformers from within the Bldg. 200 in 1992/3 in transformers vault. Replaced the transformers with non-PCB transformers.

NAVACTS Volume II

Area 3
removed PCB transformers from here in 1992/3 timeframe
Pure PCB transformers Bldg. 3169
Bldg. 3190 PCB transformer removed in 1992/3

Area 5
PCB transformer removed in 1992/3 Bldg. 3110
pole-mounted replaced

Area 4 (?)
HW storage in middle of site
power line, no transformers
wooded area

Area 7
BOTW
PCB transformer Bldg. 6,000 removed/replaced 1992/3

Area 8
PCB-contam. switch removed/replaced from Bldg. 780
PCB-contam. transformer removed/replaced from Bldg. 779
No recollection of spills.

Any known spills - yes, on adjacent properties
20G - 10,000 G capacity of transformers.
40G in 75 kVA transformers.

FISC

SV/Parcel 28A
no transformers, power line passes through. Booney areas/undeveloped.

SRF

Several PCB transformers - 3 retrofilled and recertified with Type I and II oil in 1996. One PCB transformer had been removed and replaced within the last 5 years.

PWC

Former FAA
removed contaminated pole - top transformers screened, found it to be PCB containing 7-8 years ago.

Screening conducted by PWC in 1993, Fluor & Ogden

PWC - Marine Drive 1, 2 (POI-11)
Transformer onsite no spills or PCBs

Nimitz Hill Enlisted Housing
Found and removed pole mounted PCB-contaminated transformers. Was an army storage area. No known spills.

Old Apra Heights
Houses / squatters encroaching
Power line nearby - no known PCB transformers or spills

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/9/97 PHONE #: (671) 339-7181 PROJECT#: 11019201.0177

PERSON CONTACTED: Larry Rhoden

TITLE/AFFILIATION: Electrical Engineer - PWC Utilities

RECORDED BY: Jennifer Valenzia

SUBJECT: PCB Information

NAVACTS Volume I

Three Quonsets (new area)
- vegetated / undeveloped
- no PCB-containing transformers

SRF Waterfront
Transformers retrofilled within first year

Harmon Annex
- PCB contaminated transformer removed 5 years ago

NCTAMS Barrigada
- no PCB transformers

Nimitz Hill Vacant Lands
- no PCB transformers

Polaris Point
- no PCB transformers

New Apra Heights
- no PCB transformers
- heavily vegetated

Bldg. 4175
- removed PCB-filled transformer and replaced transformer
- retrofilled another transformer

Nimitz Hill Fire Station
3 PCB-free transformers

COMNAVMAR Bldg. 200 Parcel
- removed 3 PCB-containing transformers from Bldg. 200 transformer vault
- transformers replaced

FISC

Sasa Valley Parcel 28a
- no transformer or oil containing devices
- plans to dam reservoir

PWC

Former FAA Parcels
- removed one pole-mounted transformer from housing area 6 or 7 years ago

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/10/97 PHONE #: (671) 339-4610 PROJECT#: 11019201.0177

PERSON CONTACTED: Hiphil Clemente

TITLE/AFFILIATION: Environmental Protection Specialist - PWC

RECORDED BY: Charmaine Cosky

SUBJECT: EBS Update

NAVACTS Volume II

NAVACTS Area 3
Section 4 of Building 3169. Formerly washed MHE, tested effluent in past all passed. Discharged to sanitary USTs/ASTs. sewer (not nearby storm drain). Two 600-G ASTs with diesel and gasoline used to fill MHEs (material handling equipment, i.e., folklifts) installed in late 95/early 96. UST 265 was removed - closure report late 95/early 96.
Asbestos survey that covers all but Bldgs. 2117 and 2118. Ogden conducted asbestos survey.
Bldg. 264 - 90-day accumulation/storage HW Bldg. 2117-HM stored. Ed Ola 339-7009 maintains a HM inventory.
Radon survey conducted in 1994.

NAVACTS Area 5
Behind lumber shed - unknown petroleum product spill scraped off contaminated soil, conducted contaminated soil sampling. Spill report - tested for TPH and TCLP metals, occurred in 1996. Bldg. use changes continuously. Bldg. 3179 former haz. material storage area
ECP Category 3 (Bldg. 3180) used by DRMO - general storage

NAVACTS Area 8
Bldg. 779 - Battery recharge area (lead acid) no mixing
IR site status? Hiphil will look up
NPDES - general permit, monitoring equipment monitors - 2 x 1 yr - battery recharger facility - waiting for appropriate conditions - 2/97-8/97 - approved 1997
NAVACTS/COMNAVMAR - Brock Durig or Anthony Hoover. FISC has 2 sampling points.
Air Pollution - freon emission leaks from cold storage area.

NAVACTS Area 4
Drum storage lot - emptied. In 1997 an investigation/cleanup done. Preliminary report available from Tony. No contamination found in the area.
A FISC outfall is on the property.

Meet with Tony Roberson
Harmon Annex 339-5063
PCB-containing transformer spill - Robert Cabreza has cleanup info. Samples were collected, Brock

Parcel 5D
Based on historical use and field observations - TR indicates asbestos & LBP.

FISC

Sasa Valley/Tenjo Vista

1996 illegal dump site, SW household. Based on contents, no HW and therefore, no sampling. PWC currently removing trash from the side of the hill. Final disposal being determined: appliances will go to PWC maintenance; metal will go to DRMO; soil & other household waste will go to PWC Landfill. PWC has a plan. During work PWC found the mortars (UXO), removed immediate threat. EOD indicated more UXO could be present around the Sasa Valley/Chitis Loop (Leaper's Loop on top of Sasa Valley) Tenjo Vista Area. (adjacent to SV Tank Farm) found WWII ammo and prehistoric pottery. COMNAVMAR Roy Tsutsui is making determination on EOD issue. Signs and barrels to restrict Polaris Pipeline - capped end of pipeline where a release occurred. Hiphil has info on sampling. Cleanup of oil-contaminated soil was done and removed soil to PWC bioberms. Major spill at U-4 in Sasa Valley Tank Farm and PWC is currently installing 10 MWs - installed 8 MWs. Spill occurred sometime last year, 6 or 7 K was spilled. IR site @ lower Sasa - EE/CA being worked on, hoping to be done by the end of this year. Working at 20-30 cu yds of hot spots. Removal as recommended alternative.

Fuel Reclamation to be turned over to COMNAVMAR.

Meet with Hiphil on Friday to pickup files.

Parcel 28a

Vegetation covers area along road (Spruance Drive) may be homes going up hill.

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/10/97 PHONE #: (671) 339-4610 PROJECT#: 11019201.0177

PERSON CONTACTED: Hiphil Clemente

TITLE/AFFILIATION: Environmental Protection Specialist - PWC

RECORDED BY: Jennifer Valenzia

SUBJECT: EBS Update

NAVACTS Volume II

Area 3
FISC two 600-g ASTs (contain diesel) used to fill MHEs
- Hiphil will provide closure reports for USTs
- Asbestos survey 1996
- Store haz. waste in Bldg. 264
    - 90 day storage
- Bldg. 2117 stores haz. materials
    - can provide inventory
      (Ed Ola. 339-7009)
- No LBP survey
- Radon survey 1994
    - no radon >4 piC/L
- Bldg. 3167 Section 4 - MHE Shop

Area 5
- Unknown TPH spill behind Bldg. 3186
- Have spill report
- Has been cleaned up
- Bldg. 3179
    - Haz. materials moved to Bldg. 2117
- Bldg. 3180
    - DRMO may be using for general storage

FISC

Sasa Valley Tenjo Vista
- Tenjo Vista
    - illegal ordnance
    - pipeline oil spill
- Illegal dump site found in 1996
    - household trash - no hazardous waste
    - PWC has removed most of trash
        - disposal metal DRMO & landfill
        - appliances - PWC maint. to remove freon

- found ordnance
    - Roy Tsutsui POC
    - removed immediately dangerous UXO
    - more UXO may be onsite
  - ordnance possible Parcel 28a
    - Leeper's Loop (adjunct property)
      - historic pottery
      - WWII XO
- Marine Drive Pipeline
  - capped one end of pipeline
  - spill cleaned up
    - excavated soil went to PWC bioberms

<u>Sasa Valley Tank Farm (adjacent properties)</u>
- Large spill 6-7,000 G
- Installing 10 MWs
  - No data

<u>Sasa IR Site</u>
- Finalizing EE/CA
- recommending hot spot removal

<u>Sasa Valley Parcel 28a</u>
- No uses - heavily vegetated
- No enviro. issues that may affect property
- Squatters may be living along Spruance Drive

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/10/97 PHONE #: (671) 339-4100 PROJECT#: 11019201.0177

PERSON CONTACTED: Tony Roberson

TITLE/AFFILIATION: Division Director - Naval PWC

RECORDED BY: Charmaine Cosky

SUBJECT: EBS Update

NAVACTS Volume II

Nimitz Hill Vacant Lands
plans to terminate use of road thru site.

Polaris Point
water (waste) and oily waste pipelines

Route 2A
TR recalls them still using

Rizal Beach
GW data - GW-03 & GW-04 no contam. migrated SWMU #11. Wells monitored every 6 months since before 6 years ago. See Ogden report for data.

Bldg. 4175
Frank Huelar out this week.
Access to survey data for asbetsos. PWC conducted asbestos and LBP sampling.
Removal of asbestos and LBP by contractor →OICC. A radon survey may be done in future, not known to be funded currently.

Nimitz Hill Fire Station
TR reported that PACDIV had asked for USTs to be searched for.

New Apra Heights Expansion
EA categorical exclusion - wetlands, moorhens

SRF
PWC Boiler Plant only PWC facility on SRF?? Is this here? Bldg. 27 Steam Plant

NAVACTS Area 3 Site
Frank Huelar - asbestos survey of Bldg. 3151 and old steam plant.
ASTs (TR) -
Transformers, drums of waste oil, debris at Inactive Steam Plant. Cleaned up. Mark Peterson inspected and advised of this. Materials were removed around May 1997.

Area 4 IR Site Building 3009
Janice Fukumoto with PACDIV (808) 474-5958
Contractor - IT did work
transformer repair site
Bldg. demolished, pad to be broken up

Area 4 SWMU #12
Frank Lizama - DRMO Chief OR Ronny Olgo - PWC 339-4409
Possibility of oil or PCB releases.
Responded to a leaking transformer or capacitor.

Area 4 Drum Removal
TR / PWC / Hiphil
May 1997 report provided by TR. TPH analysis in %.
Therefore, TPH above regulatory limit.

Area 6
Orote Power Plant - talk to Suzy Torres @ Port Hueneme (805) 982-2194
NFESC preparing a closure report or summary of the findings.

During sewer repairs may have found remains of a bldg. that were historically significant.

Nothing else that TR is aware of.

Brock - Bioberm

NAVACTS Area 7
Brock - Air Permit for Bldg. 6003.
TR mentions an outfall to Abo Cove (FISC 3?)
SWPPP

PWC

FAA Vacant Lands
No new changes

Nimitz Hill Enlisted Housing Site
NEX garage from Eric Shigaki

COMNAVMAR Bldg. 200
Frank Huelar - talk to him.

Old Apra Heights Site
TR thought this was a NAVACTS site. No info on this site.

NAVACTS Ordnance Annex
No known changes within last couple of years.

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/10/97 PHONE #: (671) 339-4100 PROJECT#: 11019201.0177

PERSON CONTACTED: Tony Roberson

TITLE/AFFILIATION: Division Director - Naval PWC

RECORDED BY: Jennifer Valenzia

SUBJECT: EBS Update

NAVACTS Volume I

Harmon Annex
- PCB containing oil cleanup from site soils
- E-mail and lab results - Brock - Robert Cabreza 339-5063
- Cleaned up soil
    - gave data to Brock

NCTAMS Barrigada
NSb - work order submitted for oil spill and asbestos from vandalized bldg.
- No LBP or asbestos surveys in last 2 years

Nimitz Hill Vacant Land
- No changes in land use
- Plan to terminate road to restrict public access through housing

Polaris Point
- No changes
- No evaporation pond
    - Evaporation pond across from FISC

New Apra Heights
- Wetlands northern portion of site

Rout 2A
- No changes

Rizal Beach
- SWMU #11 - Investigation completed by Ogden
- GW results show no contaminant migration toward Rizal Beach
- GW MW sampled every 6 months

NAVACTS Ordnance Annex
- No changes

Bldg. 4175
- Access to data - talk to Frank Huelar
- Asbestos & LBP survey on Emergency
- removal by Construction Battalion & contractor

- no radon survey
    - may be planned but not funded

New Apra Heights, 3 Quonsets
- Wetlands northeast on Parcel 19b
- categorical exclusion report on site (*did we get this? Yes.)
    - report available

COMNAVMAR Bldg. 200
- talk to Frank Huelar re UST removals
- Brock has radon survey results

NAVACTS Volume II

Area 8
- Bldg. 779 battery recharger area (lead-acid batteries)
- X-ray wharf IR site
- Have NPDES General Permit (approved 1997)
    - Monitor outfalls 2x/yr - 2 sampling points
    - NAVACTS holds permit
- Freon leaks from cold storage
    - Hiphil has copies of internal reports

Area 4
- Drum lot emptied
- Investigation/cleanup '97 for drum lot
- Preliminary report available
    - no contamination

Area 3
- Frank Huelar - UST and asbestos responsibility
- Inactive steam plant
    - old transformer
    - waste oil drums removed May 1997

Area 4
- Bldg. 3009 IR site
- Janice Fukomoto (805) 474-5958 @ PACDIV has info
- most of site has been cleaned up
- SWMU #12 - Frank Lizama - DRMO chief
    - possible oil & PCB leak
    - PWC responded to a leaking transformer. Talk to Ronnie Ogo 339-4409
- Drum lot
    - Emptied and sampled 1997
    - sampling report available
    - no contamination

Area 5
- No information

Area 6
- Orote Power Plant

- Clean up finished
- NFESC preparing summary of findings and closure report
- Contact Suzie Torres (805) 982-2194
- Historical Find
    - possible historic Bldg. southwest portion of site
    - found during sewer line installation
    - letter from HPO

Area 7
- talk to Brock
- Outfall now shown on map - review SWPPP

PWC

Former FAA Parcel
- No changes

Marine Drive 1
- No changes
- No LBP or asbestos survey

Nimitz Hill Enlisted Housing
- No information on gas stations
- Eric Shigaki handling removals

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/11/97 PHONE #: (671) 339-2266 PROJECT#: 11019201.0177

PERSON CONTACTED: Blaise Koki, Troy Imamura, Natasha Smith

TITLE/AFFILIATION: Environmental Protection - SRF

RECORDED BY: Charmaine Cosky

SUBJECT: EBS Update

SRF

SRF meeting with Blaise Koki (10 yrs. with SCE) and staff Natasha Smith (2 yrs. here), Roland Deguzmann (taking over), and Troy Imamura

AST / USTs
Bldg. 27 UST that belongs to PWC in SRF Industrial complex at the Steam Plant. UST had a leak.
PWC OICC dug it up Sept. 1996. Replaced the removed leaking UST with a new UST: stores pre-treatment (Frank Huelar).

All 3 existing USTs were replaced with 3 ASTs [500G diesel (2) and gas (1)] in July 1996.
500G diesel @ Foundry and 2 @ gas station. Closure reports pending from OICC (Joe Lujan) works for Fred Crisostomo under OHM contract.

Foundry - SWMU #51
March 1997 SWMU #51 sand pit unlined
dug up and sampled beneath.
Kathryn Sposato's PM - last week collected samples Sept. 4

Rick Gaitley @ PACDIV about plans to close SWMUs and open IR site.
Plan to create an OU for groundwater from SWMU contamination.

Lease signed, takes effect Oct. 1.

Releases
No new releases

Asbestos
Survey completed; all damaged, friable asbestos removed.

PCBs
21 March 1997 retrofilled

Air Permits @ SRF
per FOSL, intend on discontinuing air permits

Transfers to COMNAVMAR

- SRF Inland Site (IRP) plan on CLEAN contractor
- Dry Dock island area - couple of septic tanks

SWMU #51
Sand Pit
staging area from where opening up molds
(heavy metals - Pb, cadmium), VOCs (MEK)
**analytical data available
In 1996 found out pit wasn't lined when removing the same pit.

Original process in each bldg. remained the same until closing.

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/11/97 PHONE #: (671) 339-2266 PROJECT#: 11019201.0177

PERSON CONTACTED: Blaise Koki, Troy Imamura, Natasha Smith

TITLE/AFFILIATION: Environmental Protection - SRF

RECORDED BY: Jennifer Valenzia

SUBJECT: EBS Update

SRF

Bldg. 27
- Additional UST - replaced approx. 9/96
    - Not in EBS
- Closure report
- Store HCI for the boiler [Frank Huelar]

New SWMU #51
- March 1997
- at foundary
- sand pit - no lining
    - Ogden collected samples last week

SWMUs
- PACDIV - Rick Gaitley
- Plan to close SWMUs and conduct IR for GW
- No Releases

3 USTs removed July 1996, replaced by ASTs
- Joe Lujan - PWC OICC
    - OHM contractor
- Closure reports not available
- ASTs 500 g (diesel)
    - Foundry
    - service station diesel & gas

Asbestos
- All damaged asbestos has been abated

PCBs - 3/21/97 Transformers

NPDES Permit has been approved to be transferred to COMNAVMAR

Closing all air permits by end of month

SRF Inland site IR
- Transferred to COMNAVMAR
- USTs in place
    - will be removed under CLEAN II

Dry Dock Island
- no spills

SWMU #51
- mold and metal
- release heavy metals - Pb & cadmium
- have analytical data
- MEK releases
- found during excavation in 1996
    - PA not lined

Process in Bldgs. same until closure
- Turn over 10/1
- Hoping to close 9/30 but may not make deadline

500-gal AST west of Foundry

3 ASTs southeast Bldg. 27
- owned by PWC
    - 5000-g diesel
    - 4000-g deionized H_2O
    - 5000-g distilled H_2O

FIELD NOTES

DATE: 9/11/97 PHONE #: N/A PROJECT#: 11019201.0177

PERSON CONTACTED: N/A

TITLE/AFFILIATION: N/A

RECORDED BY: Charmaine Cosky

SUBJECT: Plan File Review

NAVACTS Volume I

COMNAVMAR Bldg. 200

1 Headquarters Bldg., New Utilities Plan, 1/2/57
Y&D Dwg. No. 768 830
desc: New HQ bldg. shown; note to abandon existing sewer and reconnect all existing bldg. sewers to new street sewer; 2 4,000-gal. diesel oil storage tanks

2 HQ Bldg., Existing Site Plan, 1/2/57
Y&D Dwg. No. 768 829
desc: shows existing HQ bldg. in Bldg. 167; also shows bldgs. 166, 165, 164, 169, 171, 173, 172; a pit is indicated within "HDQTRS SQUARE"; gas tank shown in western portion of site next to a "wash hut"; rip rap drainage way leaves from Bldg. 172 (middle of southern side) and out to Spruance Drive; the site for Bldg. 200 was formerly a parking lot for Bldg. 167

3 HQ Bldg., New Site & Grading Plan & Drainage Plan, 1/2/57
Y&D Dwg. No. 768 831
desc: storm water conveyance system shown with existing and new catch basins

4 HQ Bldg., Electrical Manhole Details, 1/2/57
Y&D Dwg. No. 768 837
desc: details roof slab plan, double manhole - power and telephone Type "I" - detail of coral sump pit/sump

5 HQ Bldg., Basement Floor Plan, 1/2/57
Y&D Dwg. No. 768 838
desc: cooling tower discharge tunnel shown, sumps, floor plan for basement

6 HQ Bldg., Basement Floor Plan, 1/2/57
Y&D Dwg. No. 768 864
desc: shows catch basins, engine generator foundation in northwest corner

7 HQ Bldg., Basement Plumbing Plan, 1/2/57
Y&D Dwg. No. 768 877
desc: 2 4000-gal. diesel tanks (in plan view)

8 HQ Bldg., Plumbing Riser diagrams, 1/2/57
Y&D Dwg. No. 768 880
desc: Diesel Fuel Storage Tank Detail; diesel fuel day tank detail

9 HQ Bldg., Machine Room Piping Plan, 1/2/57
Y&D Dwg. No. 768 884
desc: 150-gal. day tank mounted from ceiling

10 HQ Bldg., Basement Machine Room Power Layout, 1/2/57
Y&D Dwg. No. 768 893
desc: transformer platform with transformer shown, cooling towers, compressors, battery charger

11 COMNAVMAR Hdqtrs Bldg., "No Break" Power Gen. Bldg., Piping, ventilation and details, Mechanical, rev 9/26/72, orig 11/26/68
NAVFAC Dwg. No. 1237 898
desc: fuel oil tanks (qty = 2) ≥ 500-gal. capacity

12 COMNAVMAR Hdqtrs. Bldg., "No Break" Power Gen. Bldg., Piping, ventilation & details, Mechanical rev 9/11/72, orig 11/26/68
desc: Note on Dwg. indicates "All buried Stl. pipe shall be thoroughly cleaned, coated with coal tar and double-wrapped with asbestos felt." Aboveground diesel fuel day tank (4'-0" dia. x 6'-10" long) on concrete pad to north of building 202

13 Classified Materials Incinerator, Nimitz Hill, Piping Plan, Utility Plan, Lighting Plan, sections detail, isometric equipment schedule and notes, Mech-Elect, 9/18/75
NAVFAC Dwg No. 7305 430
desc: LP gas tanks inside pre-fab steel bldg.

14 Op-con Center Ozalid Printer, Installation of, Mech-Elec. 12/19/60 (orig), rev 4/17/61
PWC Dwg. No. 11,429
desc: printer located in southeast wing of hdqtrs. bldg. basement floor, paint on ventilation system indicating use of "apply 1 coat of red lead & 2 coats of paint to match surrounding color" from the ozalid printer

15 Autodin Subscriber Terminal Headquarters (aka Barracks 1A) Bldg. 200 Site Plan; Single Line Diag. and Misc. Details – Electrical, 3/21/69
NAVFAC Dwg. No. 1,194,910
desc: 45 kVA transformer (Pad-mounted)

16 Uninterrupted Power Supply Generator Bldg., Power, lighting plans & misc. details - Electrical, 9/10/67
NAVFAC Dwg. No. 1,194,812
desc: copper and zinc anode post hole ground; switch gear, CO_2 bottles transfer main switch; fuel tanks shown

17 Replacement of Cooling Towers and CHW Pipe Insulation, Mechanical, Site Plan, Evaporative Cooler and Piping Layout, Sections and Legend 5/7/71 orig, 11/16/72 rev.
NAVFAC Dwg. No. 7300417
desc: (2) Evaporative Coolers suitable for outdoor installation, blow-thru design with centrifugal blowers, 90 tons net refrigeration cooling cap; wall-mounted expansion tank (20-gal. cap.); drain lines to existing catch basins

18 Replacement of Cooling Tower and CHW Pipe Insulation, Mechanical, Part. Plans - Machine RM Piping Plan and AHU RM Piping Diagram & Details, 5/7/71 orig; 11/16/72 rev
desc: existing diesel generator shown; existing chlorinator and its corresponding pipe to be removed

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FIELD NOTES

DATE: 9/12/97 PHONE #: (671) 339-8139 PROJECT#: 11019201.0177

PERSON CONTACTED: Mark Cruz

TITLE/AFFILIATION: Environmental Protection Specialist - Naval PWC

RECORDED BY: Charmaine Cosky

SUBJECT: EBS Update

NAVACTS Volume I

4175 & 200 (Bldg. Nos.)
torn down many walls to convert from BOQ & offices to classrooms - Lead data in Excel file maintained by Mark Cruz (e-copy received on disk 9/12/97)
Exploratory demolition only not a comprehensive plan. Sampling conducted for disposal and H&S purposes.

NAVACTS Volume II

Hiphil and Tony - CORRECTION to FISC Drum Storage Lot (DSL) – TPH > 50 mg/kg.
Cover page to be replaced.
PWC to do a work plan and clean up the site by excavation in Fiscal Year '98.

Lead Survey with XRF readings in K shells for Pb.
Pb survey if inconclusive → "K shell"
0.4 – 1.4^5 rough range of
>1.6 LBP ≥ 10%
>0.0 Pb, but < 10% of lead by weight in paint. Considered LBP-free.
If inconclusive, then typically collect a sample for the lead analysis – total & TCLP.
A component of a homogenous area – pull a sample.

All demolition mtls. → LF not HW. CIH certified that the air space was clean.

Note: 4 feet and under – mouthable

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FIELD NOTES

DATE: 9/12/97 PHONE #: (671) 339-3116 PROJECT#: 11019201.0177

PERSON CONTACTED: Dean Johnson

TITLE/AFFILIATION: Environmental Protection Specialist - COMNAVMAR

RECORDED BY: Jennifer Valenzia

SUBJECT: EBS Update

General

Only 7-day storage at all sites to avoid surplus
Safety manages Hazardous Materials
Hazmin center re-distributes unused materials
Trying to reduce EPA ID #s
Centralizing materials

NAVACTS Volume II

Area 3
- Hope to decommission Bldg. 264 (remove hazardous materials)
    - Planning to centralize Bldg. 640 (new Orote Pt.)
    - Now is 90-day Storage Area

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/9/97 PHONE #: N/A PROJECT#: 11019201.0177

PERSON CONTACTED: N/A

TITLE/AFFILIATION: N/A

RECORDED BY: Charmaine Cosky

SUBJECT: MARC Aerial Photo Review

GC 12.35A COMNAVMAR
GC 12.36 Sasa Valley Parcel 28a
GC 12.39 Piti
GC 12.40
GC 12A.1
GC 12A.7 COMNAVMAR
GC 12B.113 → 115 Apra Harbor

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 9/16/97 PHONE #: N/A PROJECT#: 11019201.0177

PERSON CONTACTED: N/A

TITLE/AFFILIATION: N/A

RECORDED BY: Jennifer Valenzia

SUBJECT: SWPPP Review

Storm Water Pollution Prevention Plans
FISC SWPPP – April 1996

Section 2

NAVACTS Vol. II
- Sierra and Tango Wharf
  - Area 3 Site
  - Area 5 Site
- X-Ray Wharf
  - Area 8 Site

SRF
- Echo and Delta Piers
  - SRF Drydock Island

FISC
- Sasa Valley & Tenjo Vista
  - Parcel 12a, 12b and 28a

Facility Specific SWPPP

OGDEN *ENVIRONMENTAL AND ENERGY SERVICES CO., INC.*

FIELD NOTES

DATE: 10/14/97 PHONE #: (671) PROJECT#: 11019201.0177

PERSON CONTACTED: Jennings Bunn

TITLE/AFFILIATION: Cultural Resources Manager, COMNAVMARIANAS

RECORDED BY: Charmaine Cosky

SUBJECT: COMNAVMAR WWII bones discovery

In June 1997 - 5th Dave Lotts notified; 10th JB with Dave. 3rd set of remains in a crevice cave.
Dave Lotts, Parks Administrator, boonie stomping in area found Japanese human remains about 50 ft away from COMNAVMAR - he'll fax a map across road Spruance Dr @ latte stones 150 yards into edge of the jungle on southside of property.

Crevice cave 30 feet drop into the cave. Narrow opening opens into a 50' x 35' high. Cave floor is rock rubble.

Japanese artifacts - gas masks canisters, hot nail (8-10 pairs) boots, rations, all WWII.

Shattered, scattered bones > 3 people's worth.
1 spoon from American hand grenandes and a large charge. Everything that was found removed..
Lt. Dave Gai and staff and Jennings Bun and staff went into cave and recovered remains and took cremated and returned them to Japan.

1¼ page from case report to be faxed.

Dr. Colt Denfeld wrote "Hold the Marianas" written from Japanese perspective mentions 75 mm Japanese gun up on N.H.E.H. Many caves and very neat things. Tile factory on upper area just of side of existing road.

Shinju Murimoto - involved with Japanese remains
Heidi Hersh @Anderson.

OGDEN ENVIRONMENTAL AND ENERGY SERVICES

RECORD OF CONVERSATION

DATE: 1-8-98 TIME: _____ PHONE # (671) 339-7181 PROJECT# 110190201

PERSON CONTACTED: Larry Rhoden

TITLE/AFFILIATION: Electrical Engineering Technician, PWC Guam Utilities Department

RECORDED BY: Anita Broughton

SUBJECT: Larry Rhoden was contacted to obtain updated information regarding the PCB status of transformers at SRF. The following is a summary of the questions posed by Anita Broughton and Larry's responses:

Anita - Have the remaining two of the three former PCB transformers at SRF (retrofilled transformers E694094 and F-956618) been reclassified as non-PCB pursuant to 40 CFR 761.30 (a)(2)(v)?

Larry - Yes, these transformers were retested by PWC Guam Utilities Department personnel. Pursuant to the above-noted regulations, after retrofilling the transformers were placed on 50 % or their load and the fluids were retested after 90 days to verify that their PCB concentrations are less than 50 parts per million (ppm) (i.e., nonPCB). The test results were less than 50 ppm, and were submitted to the PWC Guam Environmental Department. The Environmental Department instructed that the PCB labels be removed and replaced with nonPCB labels.

OGDEN ENVIRONMENTAL AND ENERGY SERVICES

RECORD OF CONVERSATION

DATE: 1-8-98 TIME: _____ PHONE # (671) 339-7240 PROJECT# 110190201

PERSON CONTACTED: Blaise Koki

TITLE/AFFILIATION: Environmental Specialist, SRF Compliance

RECORDED BY: Anita Broughton

SUBJECT: Blaise Koki was contacted to obtain updated information regarding U.S. Navy operations at SRF. The following is a summary of the questions posed by Anita Broughton and Blaise's responses:

Anita - It is understood that the 2,000-gallon above ground tank at Building 27 is part of the oil/water separation system. Is this true? The GEPA, on a recent site visit, indicated that this tank stored diesel fuel. When you spoke with Jennifer Valenzia and Charmaine Cosky when they were in Guam, they interpreted the information provided that the new UST stores hydrochloric acid for the boiler. It is my understanding that this UST replaced UST 18 which was used to store steam condensate and waste oil slops as a final stage of the oil/water separation system. Isn't the new UST then used in the same capacity as the former UST 18?

Blaise - A 1,000-gallon diesel fuel AST is located at Building 27, in addition to the 5,000-gallon diesel fuel AST. The 1,000-gallon AST is currently empty and inactive. It was used in 1997 for temporary storage of diesel fuel for the boiler. The Navy proposes to remove this AST. The former UST 18 was removed because of releases associated with the reported dumping of acids into the oil/water separator. The new 550-gallon UST contains an oil/water separator and holding tank and is used solely for that purpose, and not for the storage of hydrochloric acid. Oil is pumped from the holding tank periodically. Acids are neutralized in a water treatment system located north of Building 27. After neutralization, the water is discharged to the sewer.

Anita - Based on the information we received, we indicated in the October 1997 EBS Addendum report for SRF that the February 1997 asbestos survey identified friable asbestos in the base cover and gypsum board in Building 2016, and that nonfriable asbestos was identified in floor tiles and caulking in Buildings 23, 42, and 2077. Please verify that this is true. In addition, what is meant by base cover? In addition, information obtained during interviews indicates that damaged, friable asbestos identified during the 1992 and 1997 asbestos surveys have been removed? How about damaged, friable asbestos identified during the 1996 asbestos survey? (I don't have information specific to what was identified in the 1996 asbestos survey. Please provide.) Was only damaged, friable asbestos removed? How about undamaged, friable asbestos and nonfriable asbestos?

Blaise - The base cover is the strip on the bottom of the wall between the wall and the floor. The base cover was assessed to the nonfriable. The gypsum board was damaged and, therefore, considered to be friable. All other noted nonfriable materials all correct as stated in the EBS report. All damaged, friable asbestos identified in the 1992, 1996, and 1997 asbestos surveys have been repaired. No asbestos containing materials have been removed, with the exception of in Building 20. In addition to the asbestos containing materials removed from Building 20, as stated in the EBS report, the asbestos-wrapped steamlines in Building 20 were also removed approximately 4 years ago. Additional assessment will be conducted due to the hurricane damage in December 1997. Blaise indicated that he will fax me the executive summaries for each of the asbestos survey reports.

OGDEN ENVIRONMENTAL AND ENERGY SERVICES

RECORD OF CONVERSATION

DATE: 1-13-98 TIME: _____ PHONE # (671) 339-7240 PROJECT# 110190201

PERSON CONTACTED: Blaise Koki

TITLE/AFFILIATION: Environmental Specialist, SRF Compliance

RECORDED BY: Anita Broughton

SUBJECT: Blaise Koki was contacted to obtain additional updated information regarding U.S. Navy operations at SRF. The following is a summary of the questions posed by Anita Broughton and Blaise's responses:

Anita - The last BCP version indicates that the Navy is in the process of obtaining a group storm water discharge permit that will include the SRF Industrial Area site storm water outfalls. Has this been obtained?

Blaise - Xenotechnix (aka Guam Shipyard) has been leasing the SRF Industrial Area site since October 1, 1997. There operations are similar to the previous Navy operations at that site. Xenotechnix has submitted a Notice of Intent (NOI) to USEPA.

Anita - In addition, it is noted that the NPDES permit for the floating drydock AFDM-5 at the SRF Industrial Area site has expired and is being reviewed by GEPA for renewal. Has this permit been renewed? If so, what is the expiration date?

Blaise - The permit is actually for AFDM-8 . AFDM-5 is idle (not being used). Only a NOI has been submitted for AFDM-5. AFDM-5 is located where AFDM-8 was, and AFDM-8 is now at the Papa Wharf. The GEPA is reviewing the NPDES permit application submitted by the Navy in November 1997 for AFDM-8. The GEPA indicated that the Navy could continue to operate under the previous permit until a new permit is issued. Since the new application was submitted SRF wrote a letter to GEPA indicating that the operations were turned over to COMNAVMAR and requested that the permit application be reflect this. COMNAVMAR then wrote a letter to GEPA indicating that the operations were turned over to Xenotechnix and also requested that the permit application reflect this. The

Anita - Has the 90-day hazardous waste accumulation area been closed?

Blaise - The hazardous waste accumulation area is being used by Xenotechnix. The use of this area was included in the current lease. The Navy has access/use only to Buildings 2006 and 2028.

Anita - Our previous BCP for SRF indicates that the following air permits have expired:

- Steam Boilers (2) - Building 27 GEPA Permit #NHP-342/Expired 12/31/97
- Painting & Sandblasting - Building 22 GEPA Permit #SRF-442/Expired 12/31/97

What is the status of these permits/operations? Were the permits renewed? If so, when and what is the new expiration date?

Blaise - The PWC Guam submitted an application to GEPA the first week in December 1997. The GEPA indicated that the Navy could continue to operate under the previous permits until a new permit is issued

FACSIMILE TRANSMITTAL
OGDEN ENVIRONMENTAL

5510 MOREHOUSE DRIVE
SAN DIEGO, CA 92121-1709
(619) 458-9044

FAX NUMBER: (619) 458-0943

- WE HAVE 1 PAGES TO SEND, INCLUDING THIS PAGE

DATE: JANUARY 7, 1998

TO: Dan Patterson
LOCATION: U.S. Navy
FAX NUMBER: (671) 339-4248

FROM: Anita Broughton

OPTIONAL FORM 99 (7-90) FAX TRANSMITTAL
To ANITA B
Dept./Agency OE
Fax # 458-0943
NSN 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION
# of pages ▶ 1
From DAN P.
Phone # OIEC
Fax # 339-4248

MESSAGE:

Mr. Patterson -

I have a copy of a August 30, 1996 memo that you provided to Blaise Koki regarding the UST that replaced UST 18 at Building 27. I was wondering if you were also familar with the operation of that tank. The January 30, 1997 Closure Report prepared by Nexus indicates that the new UST replaces UST 18 which was used to store steam condensate and waste oil slops as a final stage of the oil/water separation system. Isn't the new UST then used in the same capacity as the former UST 18? An interview with Blaise Koki on September 11, 1997 indicates that the new UST stores hydrochloric acid for the boiler. Could you please clarify the use of the new UST or direct me to some who can?

You can call me at (619)458-9111x301 or e-mail me at abbroughton@oees.com.

Thanks for your help!

Anita

YES, THE UST IS USED IN THE SAME WAY. BASICALLY TO COLLECT THE BLOWOFF FROM THE BOILER.

Dan

OGDEN ENVIRONMENTAL AND ENERGY SERVICES

RECORD OF CONVERSATION

DATE: 4-28-98 TIME: _____ PHONE # (671) 339-7240 PROJECT# 110190201

PERSON CONTACTED: Blaise Koki

TITLE/AFFILIATION: Environmental Specialist, SRF Compliance

RECORDED BY: Anita Broughton

SUBJECT: Blaise Koki was contacted to obtain udated information regarding specific U.S. Navy and tenant operations at the former SRF Guam. The following is a summary of the questions posed by Anita Broughton and Blaise's responses:

Anita: Are any buildings on SRF Guam still being used by the Navy? We indicated in the draft of BCP Update #1 that the Navy is using Buildings 2006 and 2028. Is this still true?

Blaise: Yes, Buildings 2006 and 2028 are still being used on the former SRF Guam. Building 2006 is being use as office space, and Building 2028 is being used as a warehouse for the storage of equipment and supplies, and also as office space.

Anita: There appears to be a discrepancy among various reviewers understanding of the status of the NPDES permits for SRF Guam. Please help me reconcile the NPDES permit status. The reviewers comments are as follows:

- One reviewer indicates that the NPDES permit for the drydocks has been transferred to the LRA, and that this permit expires in 2001.
- Another reviewer indicates that "The Navy has already obtained an NPDES storm water discharge permit for industrial sites at Apra Harbor, Guam. The Navy is covered under the Final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity dated Friday, September 25, 1992. However, this permit expired at midnight, September 25, 1997. The Navy is currently in the process of applying for the federal Multi-Sector permit which covers additional industrial areas that are associated with stormwater discharges."
- A third reveiwer indicates that "The NPDES permit has been transferred from the Navy to the new operator. This permit transfer is conducted through the Pacific Insular Area Program of USEPA Region 9."

Blaise: It is his understanding that the reviewers comments are accurate. Instead of the LRA, reference should be made to Guam Shipyard or Xenotechnix. The transfer of the NPDES permit for the drydocks was effective on March 25, 1998. He understands that Guam Shipyard submitted their notice of intent (NOI) for the storm water baseline industrial permit on the date that this permit expired, September 25, 1997. A copy of this NOI is attached. It is furher his understanding that the multi-sector permit applied for by the Navy does not cover SRF. However, to obtain additional information or clarification, he recommended that Mr. Aaron Poentis of PACNAVFACENGCOM be contacted.

REPLACES PREVIOUS FORM 3510-6 (8-92)
See Reverse for Instructions

Form Approved. OMB No. 2040-0086
Approval expires: 8-31-98

NPDES FORM

United States Environmental Protection Agency
Washington, DC 20460

Notice of Intent (NOI) for Storm Water Discharges Associated with Industrial Activity Under a NPDES General Permit

SEP 1997 RECEIVED

Submission of this Notice of Intent constitutes notice that the party identified in Section II of this form intends to be authorized by a NPDES permit issued for storm water discharges associated with industrial activity in the State identified in Section III of this form. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.

I. Permit Selection: You must indicate the NPDES Storm Water general permit under which you are applying for coverage. Check one of these.

Baseline Industrial [XX] Baseline Construction [ ] Multi-Sector (Group Permit) [ ]

II. Facility Operator Information

Name: GUAM SHIPYARD Phone: 671 339 5258

Address: PO BOX 13010 NAVACTS BRANCH Status of Owner/Operator: P

City: SANTA RITA State: GU ZIP Code: 96915-3010

III. Facility/Site Location Information

Name: APRA HARBOR NAVAL COMPLEX

Is the facility located on Indian Lands? (Y or N): N

Address: PO BOX 13010 NAVACTS BRANCH

City: SANTA RITA State: GU ZIP Code: 96915-3010

Latitude: 132630 Longitude: 144390 Quarter: Section: Township: Range:

IV. Site Activity Information

MS4 Operator Name:

Receiving Water Body: APRA HARBOR

If you are filing as a co-permittee, enter storm water general permit number:

SIC or Designated Activity Code: Primary: 2nd:

Is the facility required to submit monitoring data? (1, 2, 3, or 4): 2

If You Have Another Existing NPDES Permit, Enter Permit Number:

Multi-Sector Permit Applicants Only:

Based on the instructions provided in Addendum H of the Multi-Sector permit, are species identified in Addendum H in proximity to the storm water discharges to be covered under this permit, or the areas of BMP construction to control those storm water discharges? (Y or N) [ ]

Will construction (land disturbing activities) be conducted for storm water controls? (Y or N) [ ]

Is applicant subject to and in compliance with a written historic preservation agreement? (Y or N) [ ]

V. Additional Information Required for Construction Activities Only

Project Start Date: Completion Date: Estimated Area to be Disturbed (In Acres):

Is the Storm Water Pollution Prevention Plan in compliance with State and/or Local sediment and erosion plans? (Y or N) [ ]

VI. Certification: The certification statement in Box 1 applies to all applicants. The certification statement in Box 2 applies only to facilities applying for the Multi-Sector storm water general permit.

BOX 1

ALL APPLICANTS:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BOX 2

MULTI-SECTOR STORM WATER GENERAL PERMIT APPLICANTS ONLY:

I certify under penalty of law that I have read and understand the Part I.B. eligibility requirements for coverage under the Multi-Sector storm water general permit, including those requirements relating to the protection of species identified in Addendum H.

To the best of my knowledge, the discharges covered under this permit, and construction of BMPs to control storm water run-off, are not likely to and will not likely adversely affect any species identified in Addendum H of the Multi-Sector storm water general permit or are otherwise eligible for coverage due to previous authorization under the Endangered Species Act.

To the best of my knowledge, I further certify that such discharges, and construction of BMPs to control storm water run-off, do not have an effect on properties listed or eligible for listing on the National Register of Historic Places under the National Historic Preservation Act, or are otherwise eligible for coverage due to a previous agreement under the National Historic Preservation Act.

I understand that continued coverage under the Multi-Sector general permit is contingent upon maintaining eligibility as provided for in Part I.B.

Print Name: GERALD J. HAMMOND Date: 092597

Signature:

Post-it™ Fax Note 7671 | Date | # of pages ▶
To ANITA BROUGHTON | From BLAKE KOH

EPA Form 3510-6 (8-98)

OGDEN ENVIRONMENTAL AND ENERGY SERVICES

RECORD OF CONVERSATION

DATE: 4-30-98 TIME: 1030 PHONE # (808) 474-5981 PROJECT# 110190201

PERSON CONTACTED: Delray Cheah/Aaron Poentis

TITLE/AFFILIATION: PACNAVFACENGCOM Compliance Section

RECORDED BY: Anita Broughton

SUBJECT: Delray Cheah was contacted to obtain clarification on his comment regarding the status of the storm water permit for SRF. Delray was not available, so Aaron Poentis was contacted. Aaron indicated that it is his understanding that Xenotechnix has applied for the baseline industrial storm water permit; however, he is unsure of the status since they apparently submitted a notice of intent (NOI) on the date that the baseline industrial storm water permit expired. He suggested that the USEPA storm water NOI processing center (703) 931-3230 be contacted to confirm their compliance status. He indicated that the Navy has applied/submitted an NOI for the multi-sector group permit for the Apra Harbor Naval Complex. He further indicated that the baseline industrial storm water permit has expired and will not be renewed by the USEPA. Anyone who was covered under the baseline industrial permit must apply for the modified multi-sector permit once it is promulgated by the USEPA. It is anticipated that this will be anytime from now. It is understood that the USEPA will administratively cover the facilities under their baseline industrial permit for 30 days after the modified multi-sector permit is promulgated. This allows these facilities 30 days to apply for the modified multi-sector permit once promulgated.

OGDEN ENVIRONMENTAL AND ENERGY SERVICES

RECORD OF CONVERSATION

DATE: 4-30-98 TIME: _____ PHONE # (703) 931-3230 PROJECT# 110190201

PERSON CONTACTED: Eric Ignacio

TITLE/AFFILIATION: USEPA Storm Water Notice of Intent (NOI) Processing Center

RECORDED BY: Anita Broughton

SUBJECT: The USEPA Storm Water NOI Processing Center was contacted to ascertain whether the USEPA obtained the NOI for the baseline industrial storm water permit for Xenotechnix (Guam Shipyard) and whether that permit currently is active. Eric Ignacio indicated that the USEPA does not have a record that they received the above-noted NOI. He indicated that the only NOI he has for Guam is an NOI for the multi-sector storm water group permit from COMNAVMAR for the Apra Harbor Naval Complex. He indicated that this NOI was received on October 3, 1997, and that this permit is active. A copy of the permit information obtained from the USEPA database is attached. He further indicated that Xenotechnix would have to apply for the multi-sector group permit.

STORM WATER NOTICE OF INTENT

PROCESSING CENTER

401 M Street, S.W. (4203) Washington, DC 20460 703/931-3230

FAX COVER SHEET

To: Anita Broughton

Fax No.: 619-458-0943

Tel No.: _____

From: **Notice of Intent Processing Center**

Date: 4/30

Number of Pages: 2 **(including this page)**

Please call (703) 931-3230 if you have any questions.

Thank you,

ERIC IGNACIO

NOTICE OF INTENT FORM

Fac. Permit Number: GUR05A001 MODIFY RECORD Post Mark Date: 10/03/199

==< Owner/Operator >==

Name: COMMANDER US NAVAL FORCES MARI Tel: (671) 339-4274
Address: BLDG 542 CAMP COVINGTON Status of Owner/Operator F
City: SANTA RITA State: GU Zip Code: 96915-

==< Facility Location >==

Name: APRA HARBOR NAVAL COMPLEX Located on Indian Lands (Y/N): N
Address: PSC 455, BOX 6A
City: FPO State: GU Zip Code: 96540-
Lat: 132630 Long: 1443930 Quarter: Section: Township: Range:

Type of General Stormwater Permit : G ARCHIVE :

MS4 Operator Name: Co-Permitee #:
Receiving Water Body: APRA HARBOR AGAT BAY Existing Permit #: GUR0000(
Required to Submit Data? (1,2,3,4): In Proximity to Identified Species
Primary SIC/Activity Code: 4491 2nd: 4173 or BMP Construction? (Y/N) N
Historic preservation agreement? (Y/N) Y Land Disturbing Activities? (Y/N)

Project Start Date: / / Estimate Disturbed Area (in Acres): 0.0
Project End Date: / / Sediment Erosion Plan (Y/N):

Print Name: J M LOFASO CAPT CEC USN Date: 09/17/1997Signature: (Y/N) Y

NOTICE OF INTENT FORM

Fac. Permit Number: GUR05A001 MODIFY RECORD Post Mark Date: 10/03/1997

==< Owner/Operator >==

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Historic preservation agreement? (Y/N) Y Land Disturbing Activities? (Y/N) N

Project Start Date: / / Estimate Disturbed Area (in Acres): 0.0
Project End Date: / / Sediment Erosion Plan (Y/N):

Print Name: J M LOFASO CAPT CEC USN Date: 09/17/1997Signature: (Y/N) Y

Broughton, Anita, B

From: Eric Shigaki[SMTP:EShigaki@EFDPAC.NAVFAC.NAVY.MIL]
Sent: Thursday, May 07, 1998 10:22 AM
To: Broughton, Anita, B
Subject: RE: CTO 201 - SRF

Anita,

Yes, two Notices appreared in April. However, no interest from the community was expressed. A public meeting is planned May 21, 1998 to announce the formation of a RAB. The Navy will be asking the community for volunteers to be RAB members. Notices will appear in the Pacific Daily News next week announcing the meeting.

eric
---------- Original Text ----------

From: "Broughton, Anita, B" <abbroughton@oees.com>, on 5/7/98 6:15 AM:
To: Eric Shigaki@Code 18@NAVFAC EFDPAC

Did you notify the public again in April 1998 regarding the formation of
a RAB? Your comments indicated that this was planned.
Anita

>----------
>From: Eric Shigaki[SMTP:EShigaki@EFDPAC.NAVFAC.NAVY.MIL]
>Sent: Wednesday, May 06, 1998 1:33 PM
>To: Broughton, Anita, B
>Subject: re: CTO 201 - SRF
>
>Anita,
>
>The UST site assessments have been awarded on April 3, 1998. Alhtough I
>don't know the schedule for the field work, it would be safe to use this
>date.
>
>It would aslo be safe to assume Xenotech conducts industrial activities
>similar to the Navy for ship repair. This would be consistent with the NEPA
>documents that was prepared for the lease of SRF.
>
>Please ask Blaise as to the status of any radioactive material.
>
>eric
>---------- Original Text ----------
>
>From: "Broughton, Anita, B" <abbroughton@oees.com>, on 5/6/98 9:00 AM:
>To: Eric Shigaki@Code 18@NAVFAC EFDPAC
>
>Eric -
>
>In your comments you indicated that the site assessment activities for
>the USTs at Buildings 2072 and 27 "are planned somewhere around April
>1998". Have these activities begun?
>
>In addition, the BCP describes in Section 3.2.2 hazardous
>substance/waste managment activities conducted at SRF when the Navy
>occupied the property. Should I assume that these activities are the
>same but have historically been conducted by the Navy and are currently
>being conducted by Xenotechnix, and revise this section to indicate the
>above?
>
>Also, have all the radioactive materials at SRF been removed (i.e.,
>equipment in Building 2108)? Do you know? or should I ask Blaise?
>
>Anita

Broughton, Anita, B

From: Koki,Blaise[SMTP:bkoki@pacdiv.guam.net]
Sent: Sunday, May 10, 1998 8:52 PM
To: Broughton, Anita, B
Cc: Val Grospe; de Guzman, Roland; Imamura,Troy
Subject: RE: SRF Radioactive Materials

Anita,

I checked with the Industrial Lab (Bldg. 2108) in regards to your questions on radioactive materials/equipment. The lab started out with two Gas Chromatograph (GC), nickel 63 source equipment, one GC was given to Public Works Center (PWC) Fena Lab in August 97, and the other GC remains in Bldg. 2108.

Hope this answer your questions. Call or e-mail if you need more info.

Blaise

>----------
>From: Broughton, Anita, B[SMTP:abbroughton@oees.com]
>Sent: Thursday, May 07, 1998 8:15 AM
>To: Koki,Blaise
>Subject: SRF Radioactive Materials
>
>Blaise -
>
>Have all of the radioactive materials (e.g., the calibration sources for
>the analytical equipment at Bldg. 2108) been removed? If so, when?
>Thanks again.
>Anita
>

APPENDIX C

TRANSFORMERS

SERNUM	BASE	LOCATION	BLDGNUM	DATETEST	PCBCONTENT	GAL	NOTES
03169301	SRF		BLDG 2032 2035 2042	3/16/93	0	32	
173564	SRF		BLDG 2028	6/19/90	0	42	
175071K75AA	SRF		BLDG 2006 NEEACT	3/18/93	0	38	
189A081304	SRF	WAS 89A081304	BLDG 2001A	6/6/90	0	36	
5HLED845021-1	SRF		MAIN SUBSTATION	4/20/90	0	9	
67AC5131	SRF	SUBSTATION A	SUBSTA A	3/23/90	0	10	
70AD10950	SRF		BLDG 25 SNACK BAR	3/18/93	0	24	
70AD8253	SRF		BLDG 25 SNACK BAR	3/18/93	0	24	
70AD9562	SRF		BLDG 25 SNACK BAR	3/29/93	0	24	
7373374	SRF	MAIN SUBSTATION	MAIN SUB	10/27/87	10	3077	
78198	SRF	SUBSTATION A	SUBSTA A	11/8/93	0	140	
78E51AAGJ	SRF		SUBSTA A	11/8/90	0	130	
78E730060	SRF		SUBSTA A	12/21/93	0	150	
7OAJ5312	SRF		BLDG 2059-2060	10/30/90	0	21	
7OAJ6134	SRF		BLDG 2059-2060	10/30/90	0	21	
7OAJ6135	SRF	SHOP 31 MACHINE SHOP	BLDG 2059-2060	10/30/90	0	21	
803-534	SRF	400 AMP	SUB B	11/8/93	0	72	
803-585	SRF	400 AMP	PWR CTR, SUB C	12/20/93	0	50	
80A511693	SRF	FA-10	NEAR X-99	3/18/93	0	32	
80AS13839	SRF		93-1,WELDING SHOP	3/13/89	0	25	
81A021280	SRF	BOILER & PIPE SUBSTA.	BLDG 2049	11/17/93	0	32	
81A021282	SRF	BOILER & PIPE SUBSTA.	BLDG 2049	11/17/93	0	32	
81A022516	SRF	PIPE & BOILER SUBSTA.	BLDG 2049	11/17/93	0	32	
82A232855	SRF	FA-10	NEAR X-99	3/18/93	0	32	
83VA070001	SRF		PARKING ST. LIGHTS	6/28/90	0	38	
85V6582	SRF	NOTE: ASBESTOS BLDG. & BOAT SHOP(SAME)	BOAT SHOP	11/8/93	0	280	
866001908	SRF		BLDG 2002 PAINT LOCKER	3/17/88	0	232	
88A140295	SRF	WAS 89A440295 ?	BLDG 26, SEWER STA #18	4/16/90	0	24	
88A440299	SRF		SEWER STA #18	4/16/90	0	24	
88A440300	SRF		SEWER STA. #18	4/16/90	0	24	
88A463997	SRF		BLDG 2008 2004 2002	3/18/93	0	42	
88A463998	SRF		BLDG 2008 2004 2002	3/18/93	0	42	
88A463999	SRF		BLDG 2008 2004 2002	3/18/93	0	42	
88A504374	SRF	FA-10	NEAR X-99	3/18/93	0	32	
890509-A1	SRF	RETESTED 11-17-93 0 PPM	LIMA PIER SALT WATER PUMPS	4/1/92	0	255	
89A043913	SRF		BLDG 2006 NEACT	3/18/93	0	38	
89A070199	SRF		BLACK CONST. FIELD OFFICE	2/28/90	0	18	
89A070200	SRF		BLACK CONST. FIELD OFFICE	2/28/90	0	18	
89A070201	SRF		BLACK CONST. FIELD OFFICE	2/28/90	0	18	
90A282727	SRF		BLDG 74	3/18/93	0	32	
90A282729	SRF		BLDG 74	3/18/93	0	32	
90A453046	SRF		SEWER STA. #25	3/18/93	0	12	
90A453047	SRF		SEWER STA. #25	3/18/93	0	12	
90A453051	SRF		SEWER STA. #25	3/18/93	0	12	
91A313288	SRF		BLDG 74	3/18/93	0	32	
92C1687	SRF		NOVEMBER #1	11/8/93	0	108	
92C1688	SRF		PAPA #1	11/8/93	0	108	

SERNUM	BASE	LOCATION	BLDGNUM	DATETEST	PCBCONTENT	GAL	NOTES
92C1689	SRF		OSCAR #1	11/8/93	0	108	
92C1690	SRF		LIMA #1	12/20/93	0	50	
941010092	SRF		BLDG 2074 BATTERY SHOP	7/7/94	0	41	
941010093	SRF		BLDG 2074 BATTERY SHOP	7/7/94	0	41	
941010094	SRF		BLDG 2074 BATTERY SHOP	7/7/94	0	41	
941012598	SRF	BATTERY/MOTOR REWIND SHOP	BLDG 2070, 2068	7/7/94	0	41	
941012599	SRF	BATERY/MOTOR REWIND SHOP	BLDG 2070, 2068	7/7/94	0	41	
941012602	SRF	BATTERY/MOTOR REWIND SHOP	BLDG 2070, 2068	7/7/94	0	41	
A2412A37AAE	SRF	REPLACED 75AC-4196	BLDG 2056	3/29/93	0	38	
C9G11053A	SRF	FOR LIMA SALT WATER PUMP XFMR	LIMA PIER XFMR VAULT	9/21/88	0	20	
E-694187B	SRF	SUBSTATION A	SUBSTA. A	11/8/93	0	385	
E694094	SRF	RETRO'D WAS 130 PPM;RETESTED 6/23/97	BLDG 20, SUB B	7/15/97	14	305	RETROFILLED 3/97
F-956618	SRF	RETRO'D WAS 360 PPM, RETESTED 6/11/97	AFDM-8 SUB #2	7/14/97	20	146	RETROFILLED 3/97
F887213-64Y	SRF	WAS AT MUSE UNIT JB-74-2	PARKING LIGHTS	5/21/90	0	20	
G582510-66K	SRF		X-71, PAINT SHOP	5/21/90	0	25	
G583223-66K	SRF		X-71, PAINT SHOP	5/21/90	0	25	
G583224-66K	SRF		X-71, PAINT SHOP	5/21/90	0	15	
H531613-67K	SRF		BLDG. 2055	7/17/90	0	10	
K507783K72AA	SRF		BLDG 2006 NEACT	3/18/93	0	38	
M164813YCNA	SRF		BLDG 2053,2054	6/28/90	0	18	
M614780YHPA	SRF		FLOODLIGHTS	6/28/90	0	38	
N618513-YJW	SRF	WELDING SHOP	93-1, WELDING	3/13/89	0	34	
N621805-YJW	SRF		93-1,WELDING SHOP	3/13/89	0	34	
P623699-YRD	SRF	TESTED 61190 0PPM	BLDG 2078 COMPRESSOR	8/23/93	0	46	
P671726-YUD	SRF	TESTED 61190 0 PPM	BLDG 2078 COMPRESSOR	8/23/93	0	46	
P671727-YUD	SRF	TESTED 61190 0PPM	BLDG 2078 COMPRESSOR	8/23/93	0	46	
PAL4774-0101	SRF	Z=6.35% 4D1/4D2/4D3	LIMA PIER	12/22/93	0	340	
PAL4774-0102	SRF	Z=6.40%	MIKE/NOV WHARF	12/22/93	0	340	
PAL6187-0102	SRF	WAS YFP-14REM 2-26-91/ROMEO SUB 5/23/97	AFDM-8 SUBSTA #1	6/13/88	0	276	REPLACES RETROFILLED TRANSFORMER
PCL6499-0101	SRF		BLDG #21, SUBSTA C	1/24/89	0	196	REPLACES PCB TRANSFORMER
PDB0237	SRF		BLDG 2032 2035 2042	3/16/93	0	32	
PDB0238	SRF		BLDG 2032 2035 2042	3/16/93	0	32	
PDT0950-0101	SRF	RETESTED 110893	BLDG 28,QUEBEC COMPRESSOR PLANT	11/9/93	0	350	
Q034518-XNG	SRF		BLDG 2028,2077	7/26/93	0	40	
Q034519-XNG	SRF		BLDG 2028,2077	7/26/93	0	40	
Q066843-YRG	SRF		BLDG 2060	8/30/93	0	21	
Q066845-YRG	SRF		BLDG 2060	8/30/93	0	21	
Q066847-YRG	SRF		BLDG 2060	8/30/93	0	21	
SET8378-0101	SRF	Z=6.14% 5G1/5G2/5G3	LIMA WHARF	12/22/93	0	489	
TAT1724-01	SRF	NEW FOUNDRY	BLDG 30 SHOP 81 NEW FOUNDRY	11/8/93	0	375	
W280381	SRF	SANDBLASTING SHOP PAINT SHOP	BLDG #22, SHOP # 71	6/26/89	0	400	
X38BLDG19	SRF	ENGINE SHOP IN MANHOLE 250A TYPE OL-3	BLDG 19 SHOP X-38	4/3/95	0	20	

C-2