5/18/05-01252

DEPARTMENT OF THE NAVY
NAVAL ACTIVITY PUERTO RICO
PSC 1008 BOX 3001
FPO AA 34051-3001

5090
Ser N46E4/218
18 MAY 05

Environmental Quality Board
Office of Scientific Assessors
P.O. Box 11488
San Juan, PR 00910

Attention: Mr. Teófilo de Jesus

Ladies and Gentlemen:

Enclosed is the Preliminary Analysis of Environmental Effects (PAEE) for the Corrective Measures at various Solid Waste Management Units (SWMU) and Areas of Concern (AOC) sites at Naval Activity Puerto Rico. It is submitted for your evaluation and certification of compliance with Article 4(B)(3) of Law # 416 of September 2004, as amended.

Should you have other questions, please contact Mr. Pedro Ruiz, P.E., Pollution Abatement Program Manager, Environmental Engineering Division, Public Works Department, at (787) 865-4152 extension 459.

S. D. KENNEDY
Commander, U.S. Navy
Officer in Charge

Enclosure: (1)

Copy to: (w/o enclosure)
Commander
Navy Region SE (N46E)
P.O. Box 102
Jacksonville FL 32212-0102

Commander
Atlantic Division (EV24)
Naval Facilities Engineering Command
6506 Hampton Blvd.
Norfolk, VA 23508-1278

NATIONAL ENVIRONMENTAL POLICY ACT OF 1969
RECORD OF CATEGORICAL EXCLUSION
FOR THE CORRECTIVE MEASURES AT VARIOUS SOLID WASTE MANAGEMENT UNITS (SWMU) AND AREAS OF CONCERN (AOC) SITES (SITE SWMU 9, SWMU 13, SWMU 46/AOC C, AND SWMU 53)
NAVAL ACTIVITY PUERTO RICO

1. **EXECUTIVE SUMMARY:** The proposed action complies with the National Environmental Policy Act of 1969. No significant environmental impacts are anticipated as a result of the proposed action; an Environmental Assessment or an Environmental Impact Statement will not be prepared. This project complies with the requirements of Categorical Exclusion "16", that addresses routine movement, handling, and distribution of materials, including hazardous materials/waste that when moved, handled or distributed are in accordance with applicable regulations as specified in paragraph 5(f)(16) SECNAVINST 5090.6A of April 26, 2004.

2. **BACKGROUND:** This project is for Corrective Measures (CM) at the Naval Activity Puerto Rico (NAPR), Ceiba, PR at SWMU 9, 13, 46, 53, and the area of concern AOC C. These sites have been identified as areas with contaminated soil. This work is being done in accordance with the Corrective Measures Implementation Work Plan under the Naval Activity Puerto Rico Part B Permit # PR2170027203. The objective of this work is to perform soil removal of contaminated soils to meet the established corrective action objectives Work Plan submitted to the Environmental Protection Agency (EPA).

3. **ACTION:** This action is to implement Corrective Measures (CM) by performing soil removal and disposal at these sites. The scope of work for each of the sites is as follows:

SWMU 13 consists of the area that contained the Old Pest Control Shop including the drainage ditch along Forestall Drive. Pesticides for used on the base were mixed at this location and pesticides application equipment was cleaned. The site consists of a concrete paved area surrounded by grass on the east and south. The contaminated soil will be excavated and disposed of from this site. All work to be conducted for these sites will be conducted in accordance with the remedial design packages for each of these sites and approved by EPA. The expected volume of soil to be generated is approximately 50 cubic yards.

SWMU 46 and AOC C are located adjacent to each other behind Building 2326 and 2036 along Valley Forge Road. SWMU 46 consists of two concrete pads covered by a roof with the sides open and the immediate surrounding area. Various electrical materials were stored at this site. AOC C consists of three raised concrete pads with curbing and the immediate surrounding area. These areas are contaminated with Polychlorinated Biphenyls (PCBs). The expected volume of soil to be generated is approximately 100 cubic yards.

SWMU 53 consists of Building 64 and the immediate surrounding area. The building is 15 ft. by 20 ft. and occupies approximately 1/8 acre. Building 64 was constructed in 1942 as a storage facility for pesticides (including Aldrin and DDT). The building was condemned in 1980. The contaminants at this site are pesticides. The expected volume of excavated soil to be generated is approximately 200 cubic yards.

SWMU 9 consist of three (3) concrete pad areas of approximately 20' X 20' each contaminated with lead. The excavation will be to one (1) foot below ground surface (bgs). The expected volume of soil to be generated is approximately 100 cubic yards.

4. ALTERNATIVES: The proposed action is the only alternative to comply with the NAPR RCRA Part B Permit and environmental regulations.

5. SUMMARY OF ENVIRONMENTAL IMPACTS: This action will not affect public health or safety, and does not have the potential for significant environmental impacts on wetlands, endangered or threatened species, historical or archaeological resources, or hazardous waste sites. It will not involve activities that could have uncertain, unique or unknown risks; or which are scientifically controversial. The proposed action will not establish precedents or make decisions in principle for future actions with significant effects. It will not threaten a violation of Federal, State or Local Law or requirements imposed for protection of the environment.

6. ENVIRONMENTAL PERMITS

The proposed project may require the following permits prior commencement of project:

a. Permit for air emissions (fugitive) under the Regulation for the Control of Atmospheric Pollution from EQB.

b. Solid Waste Generation Permit (DS-3)

c. Control of Erosion and Sedimentation Plan

7. OVAL: This project was reviewed for compliance with the National Environmental Policy Act of 1969 as implemented by SECNAVIINST 5090.6A, of 26 April 2004 by the following:

Prepared by: Pedro J. Ruiz, P.E.
Title: Environmental Engineer
Code: N46E4
Date: May 2005

Reviewed by: Raymond Garay, P.E.
Title: Director, NAPR Public Works Department
Code: N46
Date: May 2005

Approved by: Ronald G. Terrell, LCDR, U.S. Navy
Title: Assistant Officer in Charge
Code: N00A
Date: May 2005

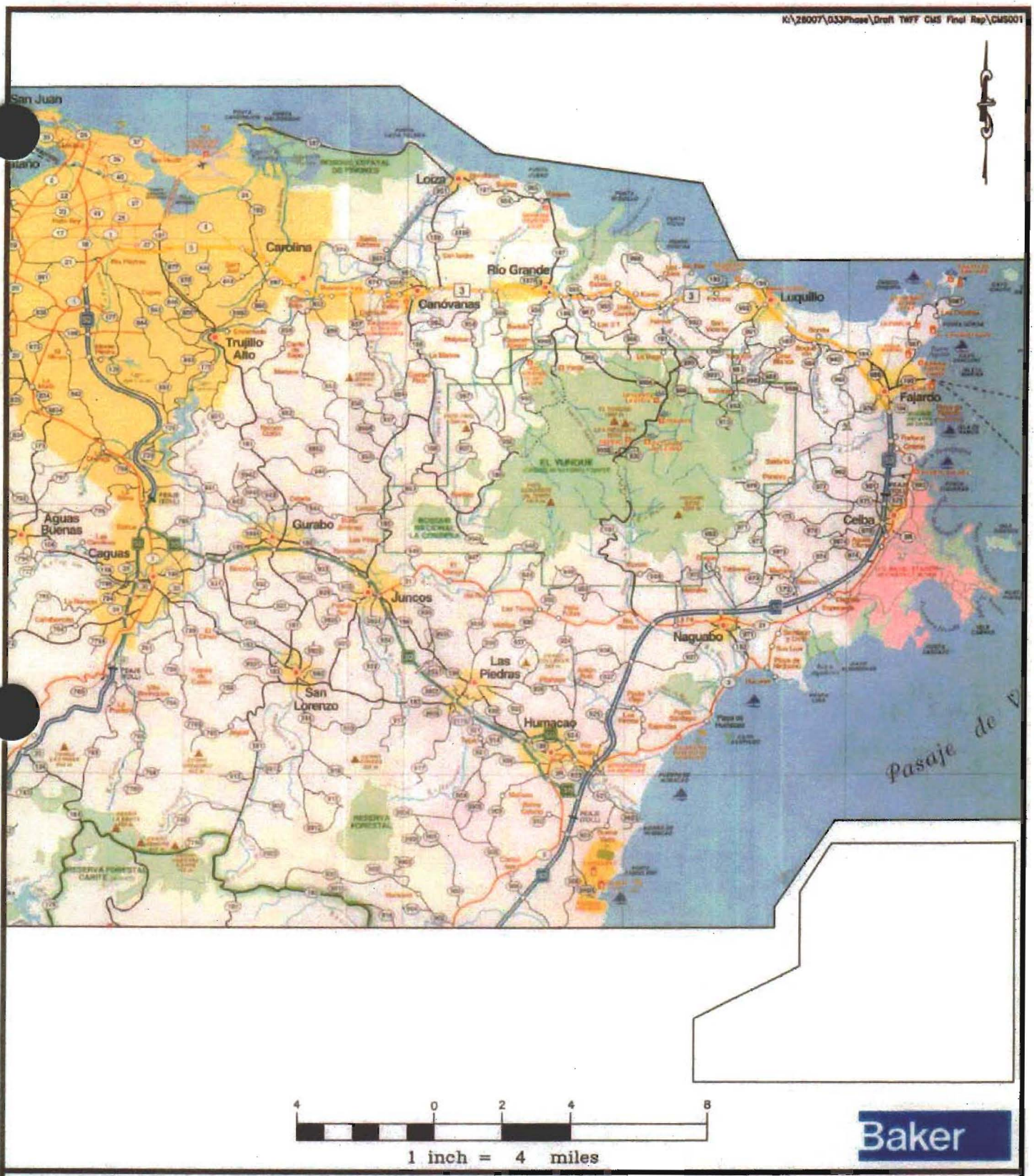
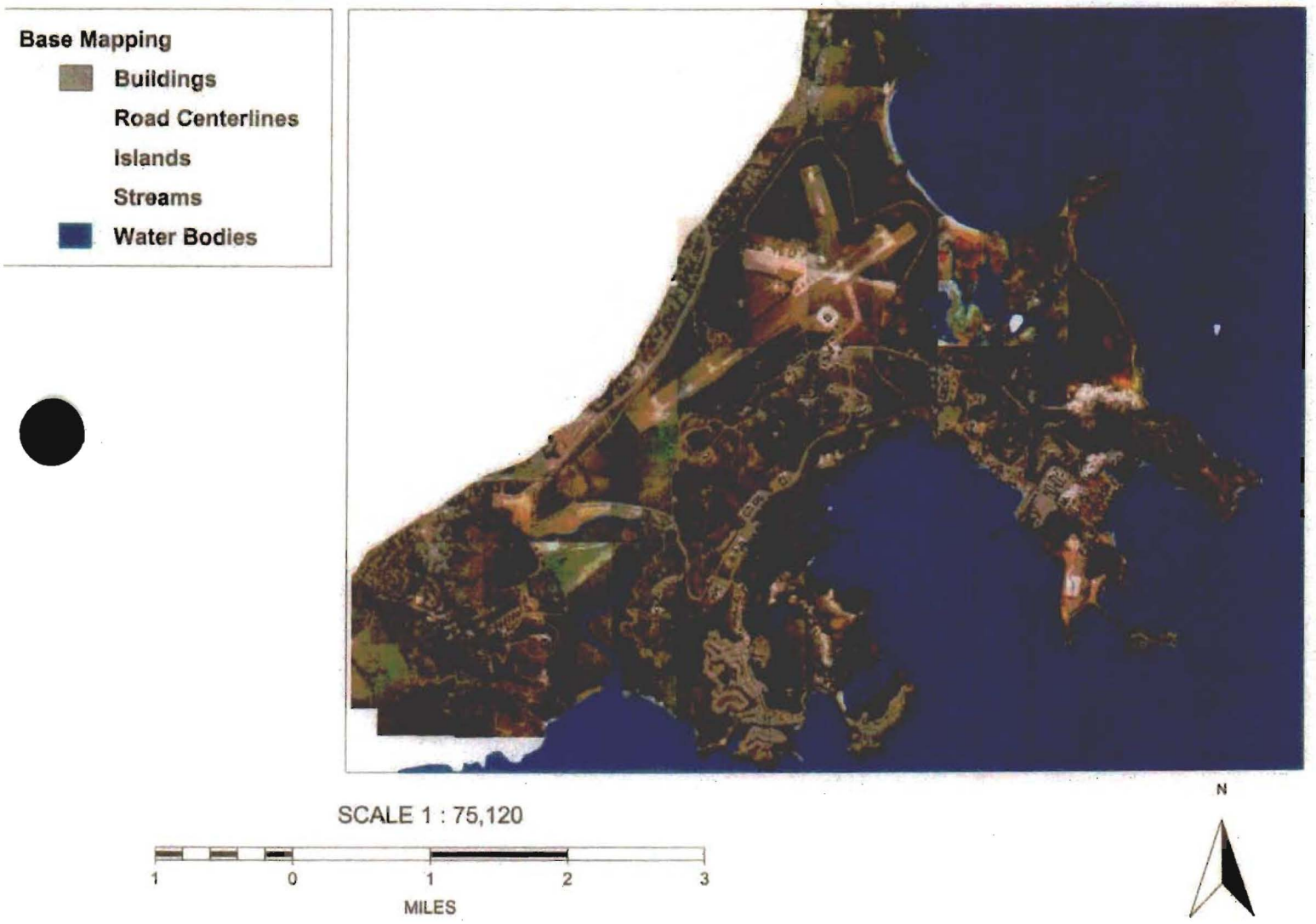


FIGURE 1-1
REGIONAL LOCATION MAP

NAVAL STATION ROOSEVELT ROADS
PUERTO RICO

SOURCE: METRODATA, INC., 1999.

Naval Activity Puerto Rico



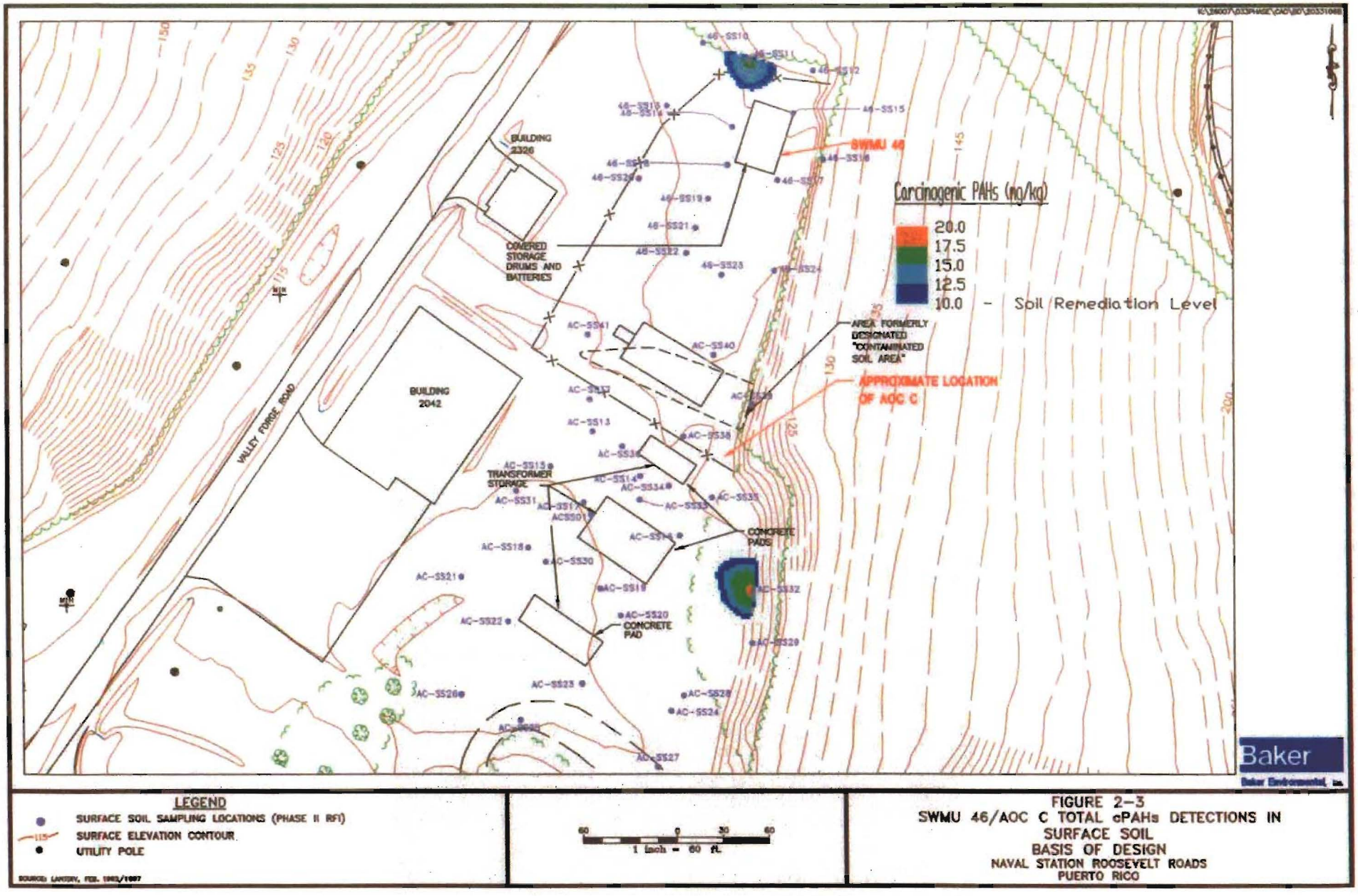


FIGURE 2-3
SWMU 46/AOC C TOTAL cPAHs DETECTIONS IN SURFACE SOIL
BASIS OF DESIGN
NAVAL STATION ROOSEVELT ROADS
PUERTO RICO

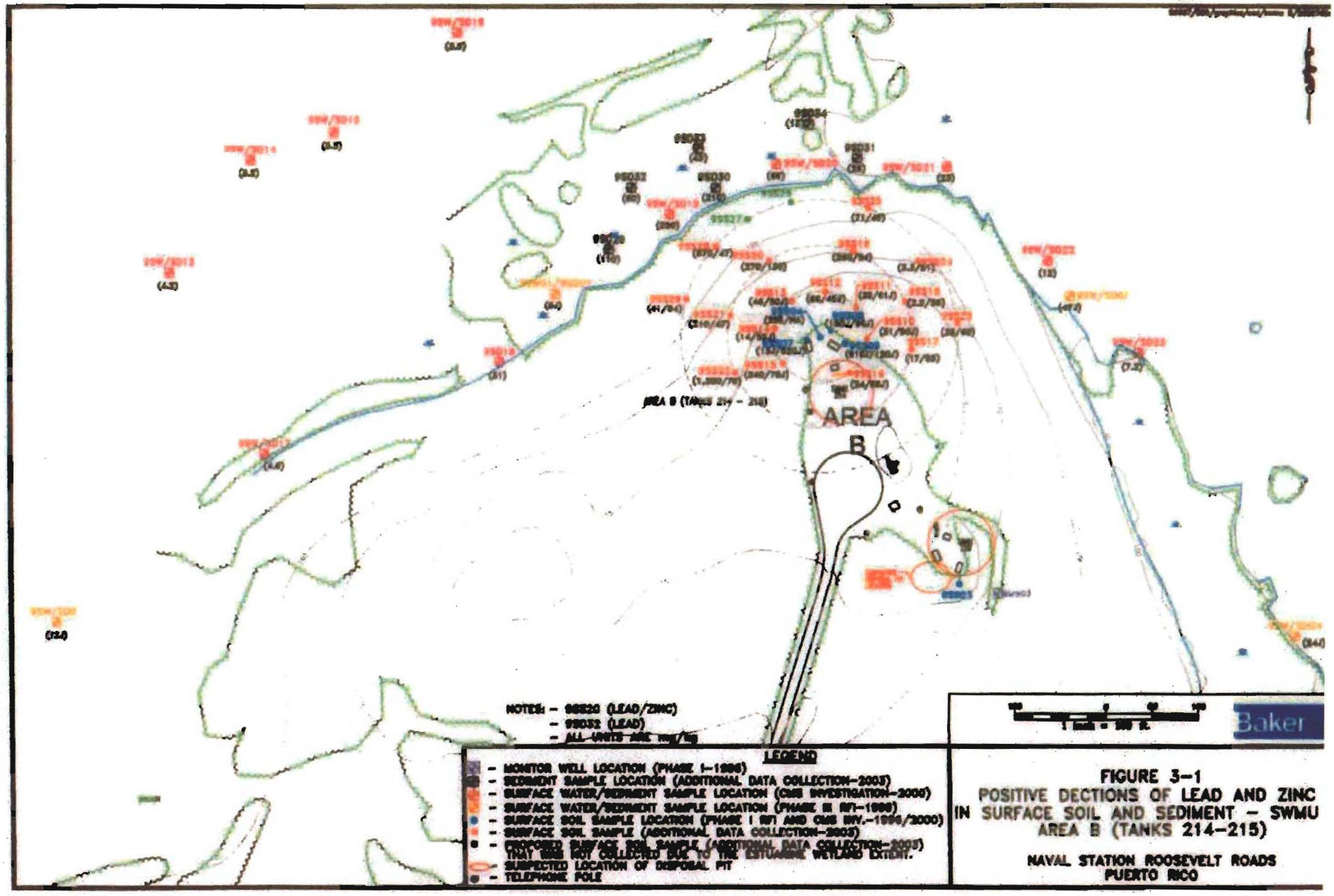
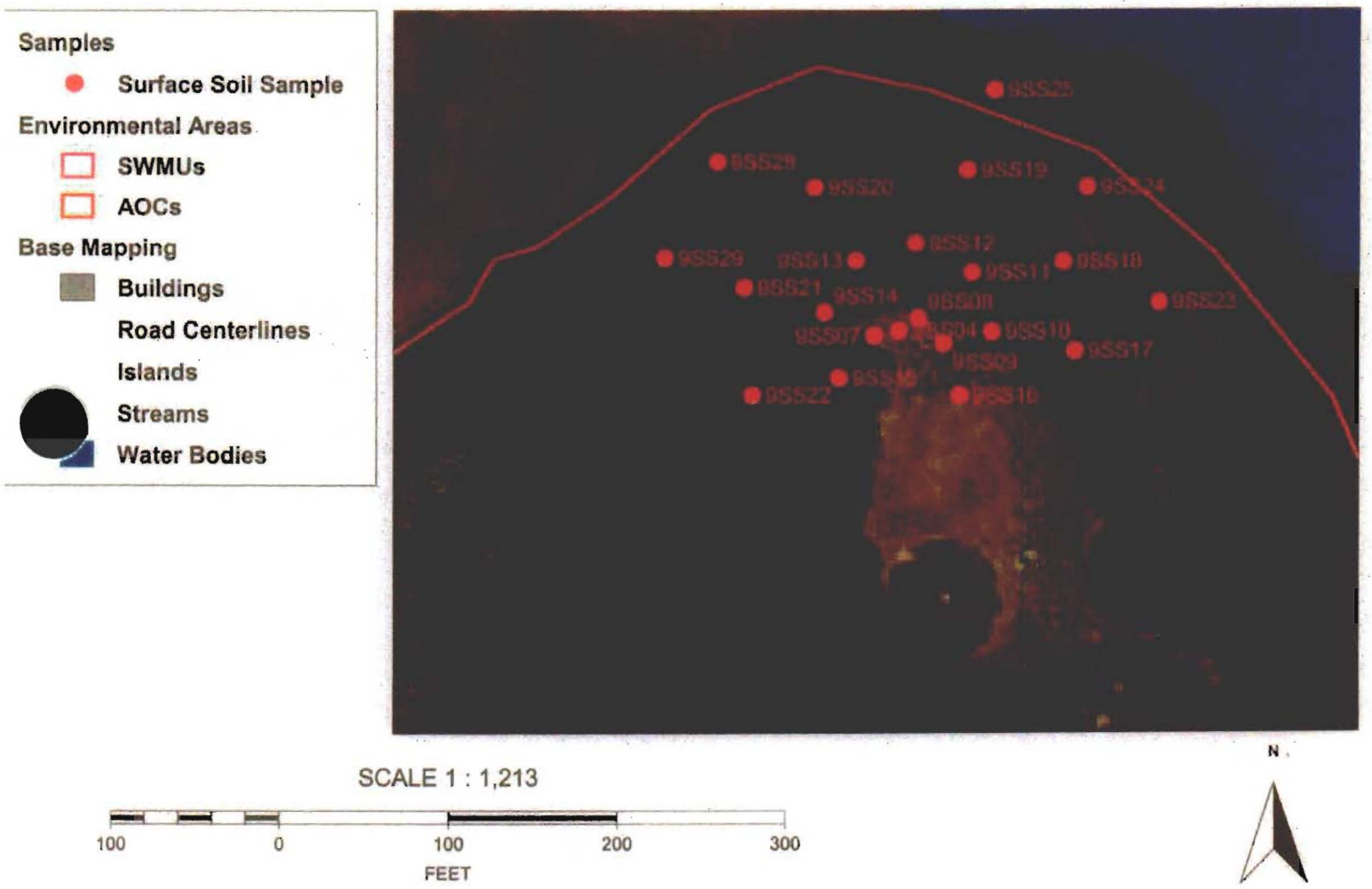


FIGURE 3-1
POSITIVE DECTIONS OF LEAD AND ZINC IN SURFACE SOIL AND SEDIMENT – SWMU AREA B (TANKS 214–215)

NAVAL STATION ROOSEVELT ROADS
PUERTO RICO

SWMU 9 (Area B)


Samples
Surface Soil Sample
Environmental Areas
SWMUs
AOCs
Base Mapping
Buildings
Road Centerlines
Islands
Streams
Water Bodies
95S25
95S19
95S20
95S12
95S11
95S21
95S14
95S08
95S23
95S07
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200
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FEET
N

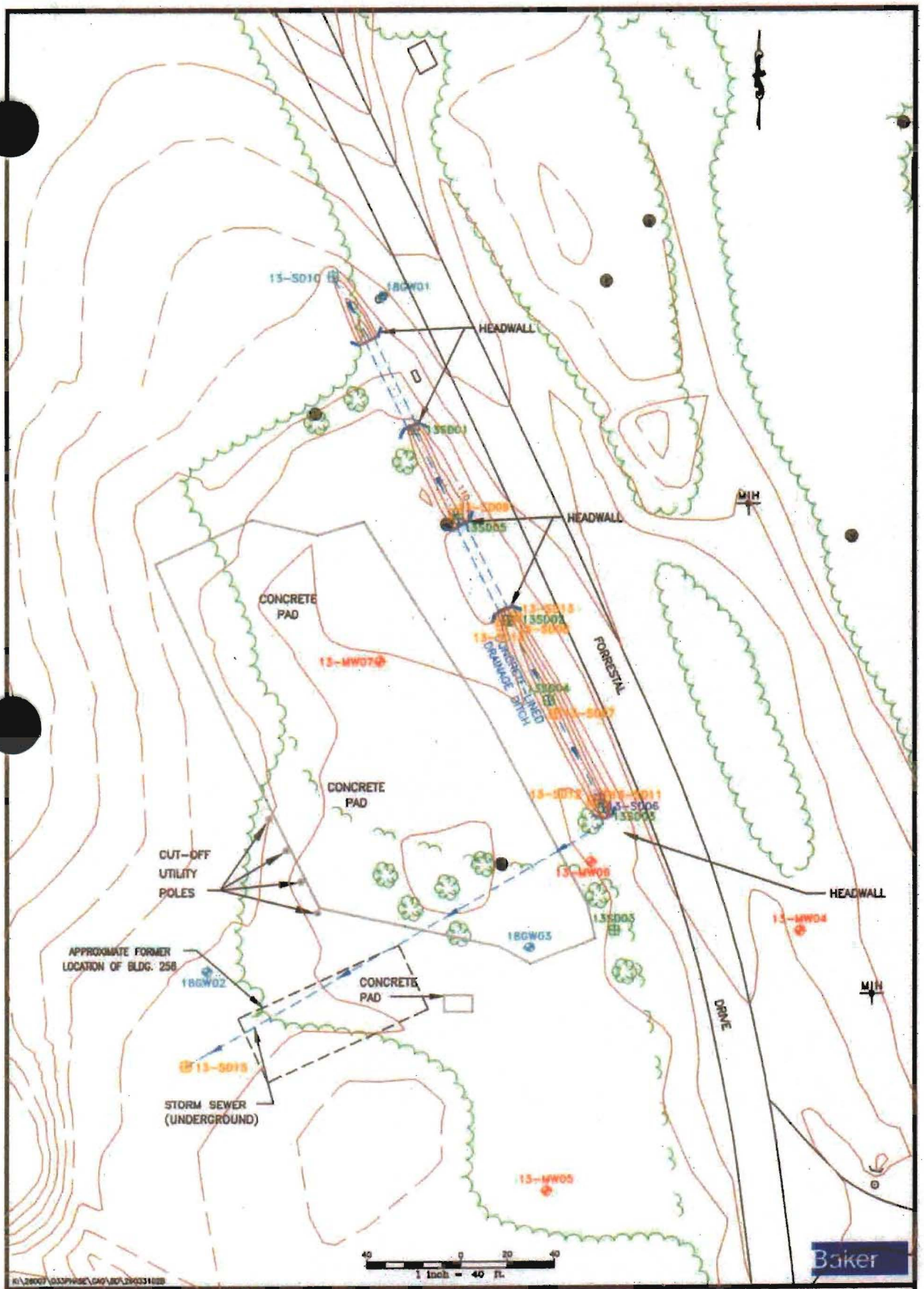
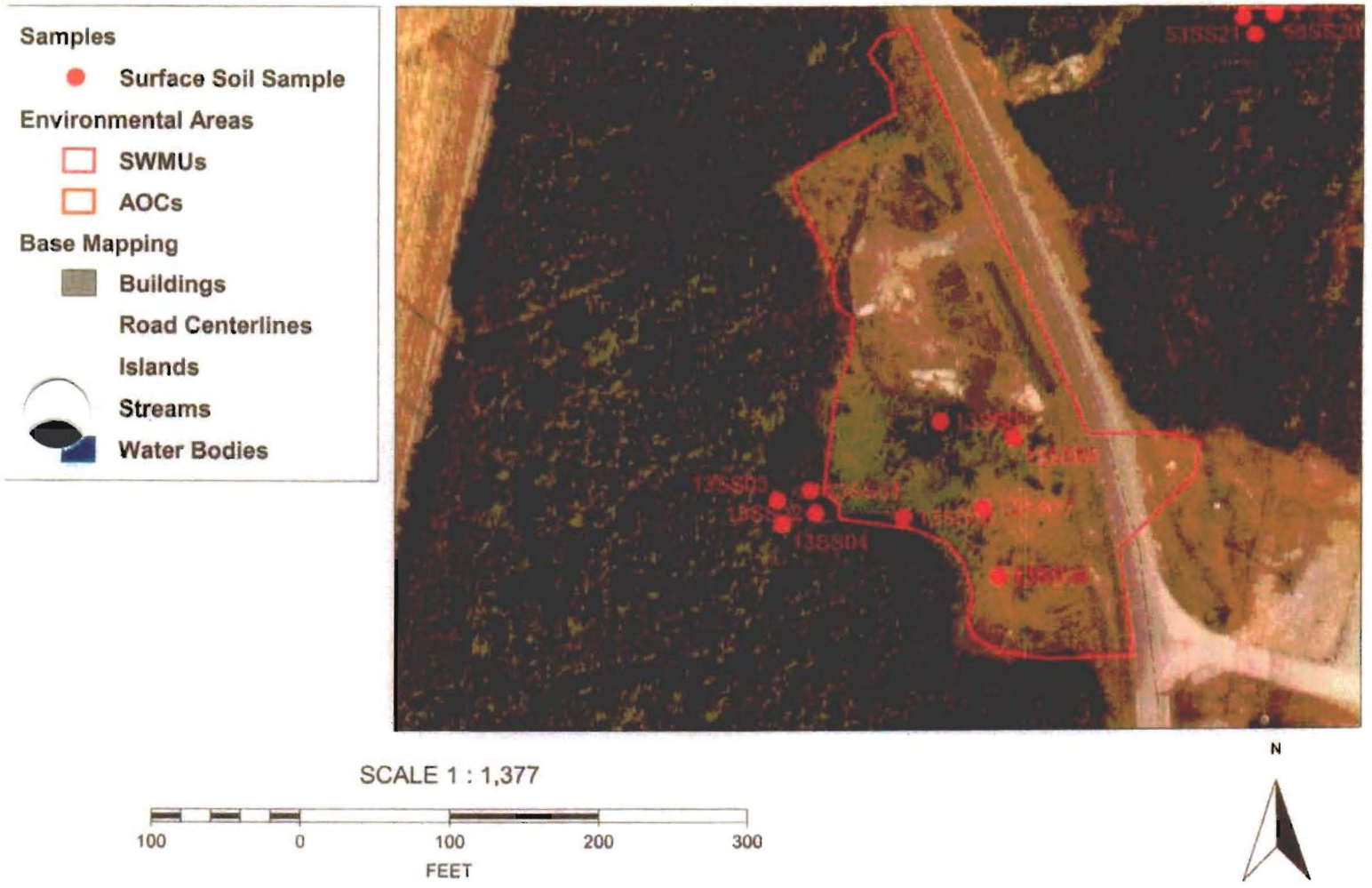


FIGURE 1-3
SWMU 13 SITE PLAN
BASIS OF DESIGN
NAVAL STATION ROOSEVELT ROADS
PUERTO RICO

SWMU 13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AOCs
Base Mapping
Buildings
Road Centerlines
Islands
Streams
Water Bodies
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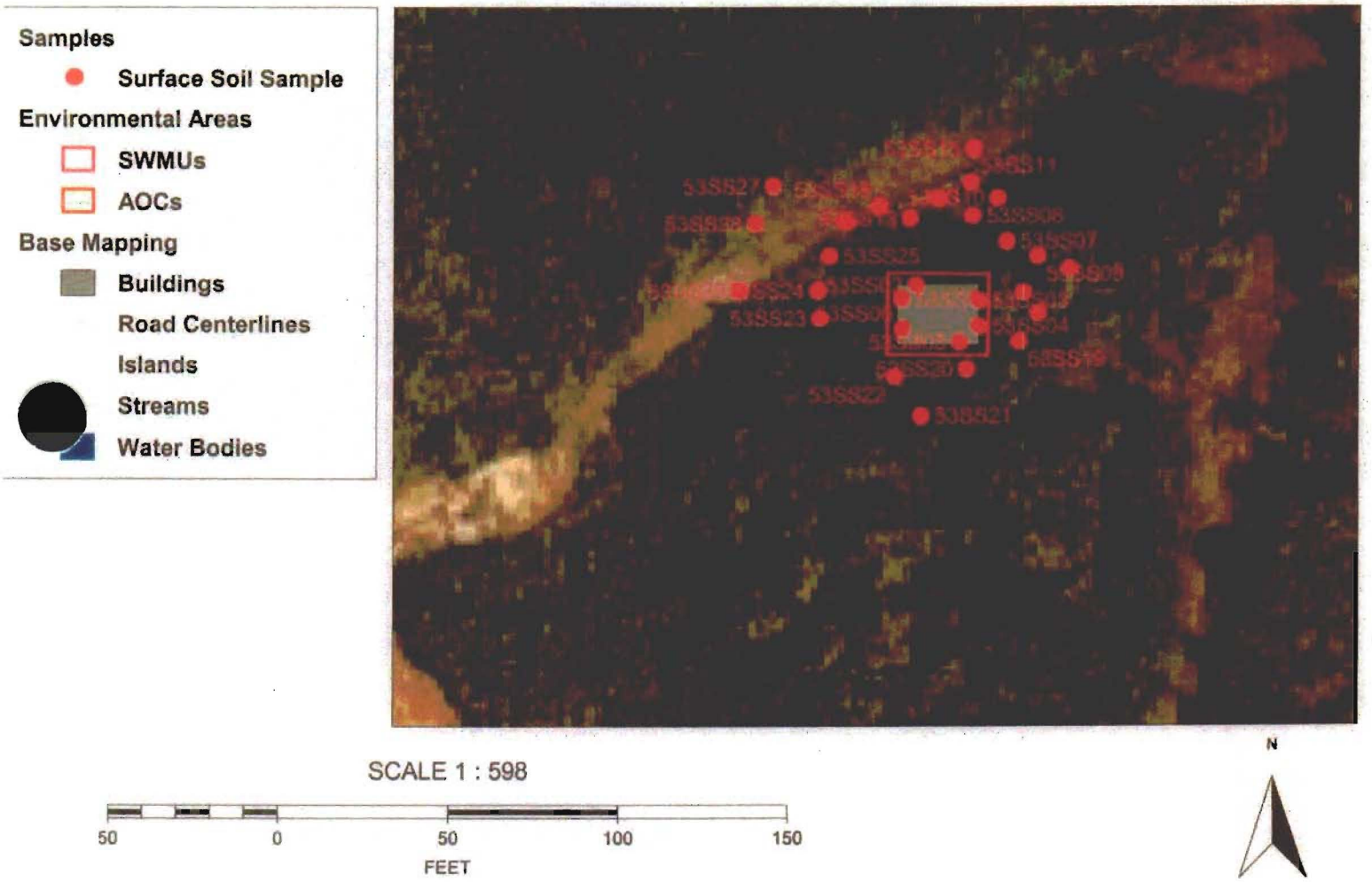
SWMU 53


Samples
Surface Soil Sample
Environmental Areas
SWMUs
AOCs
Base Mapping
Buildings
Road Centerlines
Islands
Streams
Water Bodies
SCALE 1 : 598
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0
50
100
150
FEET
N

PRELIMINARY ANALYSIS OF ENVIRONMENTAL EFFECTS FOR THE CORRECTIVE MEASURES AT VARIOUS SOLID WASTE MANAGEMENT UNITS (SWMU) AND AREAS OF CONCERN (AOC) SITES (SITE SWMU 9, SWMU 13, SWMU 46/AOC C, AND SWMU 53) NAVAL ACTIVITY PUERTO RICO

1. PURPOSE AND NEED

1.1 **Background:** This project is for Corrective Measures (CM) at the Naval Activity Puerto Rico (NAPR), Ceiba, PR at SWMU 9, 13, 46, 53, and the area of concern AOC C. These sites have been identified as areas with contaminated soil. This work is being done in accordance with the Corrective Measures Implementation Work Plan under the Naval Activity Puerto Rico Part B Permit # PR2170027203. The objective of this work is to perform soil removal of contaminated soils to meet the established corrective action objectives Work Plan submitted to the Environmental Protection Agency (EPA).

1.2 **Proposed Action:** The proposed project is to implement Corrective Measures (CM) by performing soil removal and disposal at these sites. The scope of work for each of the sites is as follows:

SWMU 13 consists of the area that contained the Old Pest Control Shop including the drainage ditch along Forestall Drive. Pesticides for used on the base were mixed at this location and pesticides application equipment was cleaned. The site consists of a concrete paved area surrounded by grass on the east and south. The contaminated soil will be excavated and disposed of from this site. All work to be conducted for these sites will be conducted in accordance with the remedial design packages for each of these sites and approved by EPA. The expected volume of soil to be generated is approximately 50 cubic yards.

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SWMU 53 consists of Building 64 and the immediate surrounding area. The building is 15 ft. by 20 ft. and occupies approximately 1/8 acre. Building 64 was constructed in 1942 as a storage facility for pesticides (including Aldrin and DDT). The building was condemned in 1980. The contaminants at this site are pesticides. The expected volume of excavated soil to be generated is approximately 200 cubic yards.

SWMU 9 consist of three (3) concrete pad areas of approximately 20' X 20' each contaminated with lead. The excavation will be to one (1) foot below ground surface (bgs). The expected volume of soil to be generated is approximately 100 cubic yards.

2. ALTERNATIVES

2.1. **No action**: This alternative was considered and found unacceptable. The Interim Corrective Measures must be performed.

2.2. **Take action**: The proposed action is the only alternative to comply with the environmental regulation.

3. AFFECTED ENVIRONMENT

3.1. Description of the Affected Environment Within the Proposed Project Site.

a. Vegetation. There would be some impacts to vegetation during the execution of the project. Some vegetation may have to be cleared to get access to the contaminated area.
b. Soil. Areas to be disturbed contain waste and cover material. New soil areas will not be impacted. New clean soil will replace excavated soil and disturbed areas will be returned to original condition.
c. Threatened and Endangered Species. The marine environment surrounding Naval Activity at Ceiba Puerto Rico is a habitat for sea turtles and manatees. The proposed action will implement erosion control measures to prevent sediments and run off from discharging to the bodies of waters surrounding the project areas.
d. Air- Fugitive dust will be generated during the excavation and replacement of the soil cover. Wetting down the soil cover as is placed and compacted will control the dust. Seeding and mulching will serve as temporary control for fugitive dust until grass is established.
e. Noise. Some noise produced by the use and operation of heavy equipment and vehicles could be expected during the execution of the proposed project. The effects would be of a short-term duration and no permanent significant adverse consequences are anticipated.
f. Cultural Resources. The project would not impact any historic or archaeological sites eligible for inclusion in the National Register of Historic Places. No historic and archaeological surveys were deemed necessary, and none were completed.
g. Marine Resources. The project would not have impacts on essential fish habitat or other marine resources.

3.2. Assessment of the Positive and Negative Effects of the Proposed Action.

a. The proposed action would not:

(1) cause emissions into the atmosphere of toxic hazardous substances or significant amount of other pollutants.
(2) cause the creation of excessive noise, when considering the proximity and likely effects of the noise on humans or wildlife.
(3) introduce toxic or hazardous substances or significant amount of chemicals, organic substances or solid wastes into bodies of water, on land or otherwise affect water or soil quality.
(4) require the use of non-renewable energy sources (e.g., fossil fuels, etc.) in apparently excessive or disproportionate amounts.
(5) result in contamination or deterioration of food or food sources.
(6) affect population density and congestion.
(7) adversely affect the neighborhood character and zoning.
(8) alter area hydrologic properties.

3.3. Potential Significant Effects of the Proposed Action.

Item	Favorable	Adverse	No Effect
Traffic	[ ]	[ ]	[X]
Community Facilities	[ ]	[ ]	[X]

Schools	[ ]	[ ]	[X]
Waste Treatment	[X]	[ ]	[ ]
Utilities	[ ]	[ ]	[X]
Land Management	[X]	[ ]	[ ]
Solid Waste Disposal	[X]	[ ]	[ ]
Area Appearance	[X]	[ ]	[ ]
Other: Safety	[X]	[ ]	[ ]

3.4. Relationship of Proposed Action to land use plans, policies and controls for the affected area.

Item	Conforms With	No Plans For Area	Conflicts With
a. Land Use Plans	[X]	[ ]	[ ]
b. Clean Air Act	[X]	[ ]	[ ]
c. Federal Water Pollution Control Act	[X]	[ ]	[ ]
d. PR Coastal Zone Management Program	[X]	[ ]	[ ]
e. AICUZ	[ ]	[X]	[ ]

3.5. Irreversible and irretrievable commitments of resources that would be involved in the proposed action if implemented.

[X] No significant irreversible or irretrievable commitment of resources.
[X] No destruction of identified archeological site or sites having possible historic or architectural interests.
[X] No adverse effect on known endangered species or wildlife.
[X] No significant change in land use.
[ ] Other:_____

3.6. Relationship between local short-term users of man's environment and maintenance and enhancement of long-term productivity.

[X] Change in short-term use.
[ ] No change in the maintenance and/or enhancement of long-term productivity.
[X] Insignificant effects on the environment will occur only during the project period and these will not create permanent or long-lasting adverse effects.

3.7. Enhance of the short-term use of resources by the proposed action.

[X] Abating existing or potential pollution.
[X] Enhancing the area appearance.
[ ] Reducing utility requirements. One energy efficient Building.
[ ] Improvements in operational efficiency.
[ ] Improvements in habitability of existing facilities.
[ ] Improvements in air quality standard outdoor and indoor the existing facilities.
[ ] Other:

4. CONCLUSION

It is concluded that the proposed action would not have significant adverse effects on the environment. Some dust and noise impacts are anticipated during project execution. These impacts are short-term in duration and scope. This action would not adversely affect flood plains or wetlands, endangered or threatened species, historical or archaeological resources, or hazardous waste sites. It would not involve

effects on the human environment that are highly uncertain, unique or unknown risks, or which are scientifically controversial. The proposed action would not establish precedents or make decisions in principle of future actions with significant effects. The proposed action will have a positive impact on the environment since the project will abate the existing contamination in each of these sites. This project complies with the requirements of Categorical Exclusion "16", that addresses routine movement, handling, and distribution of materials, including hazardous materials/waste that when moved, handled or distributed are in accordance with applicable regulations as specified in paragraph 5(f)(16) SECNAVINST 5090.6A of April 26, 2004.

This document is consistent with and fulfills the requirements of the National Environmental Policy Act of 1969, and Article 4(B)(3) the Commonwealth of Puerto Rico Law No. 416 of September 2004, Environmental Policy Act, as amended. Therefore, an Environmental Assessment or an Environmental Impact Statement is not required.

5. ENVIRONMENTAL PERMITS

The proposed project may require the following permits prior commencement of project:

a. Permit for air emissions (fugitive) under the Regulation for the Control of Atmospheric Pollution from EQB.
b. Solid Waste Generation, DS-3, from EQB

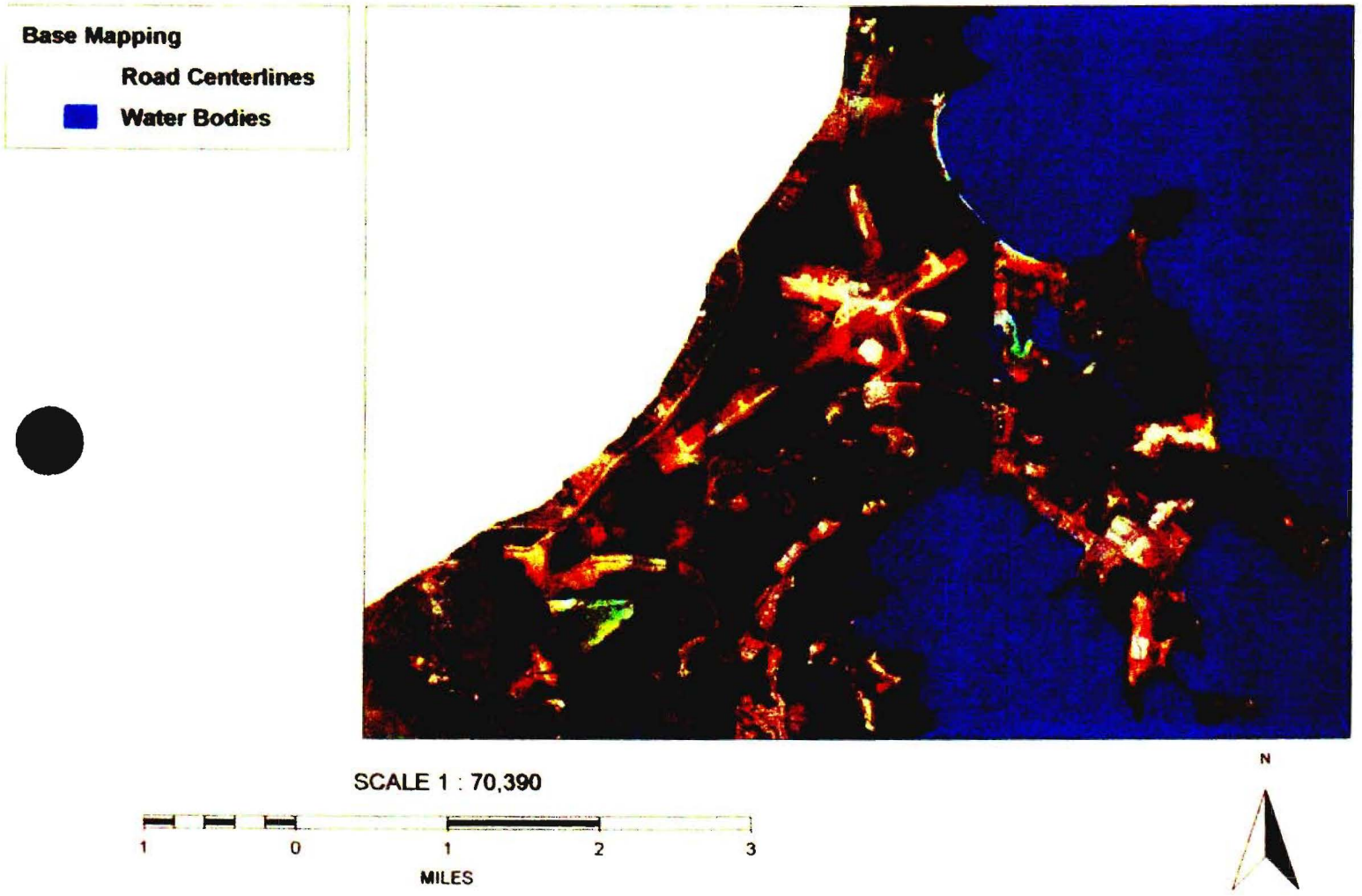
6. APPROVALS:

Prepared by: /Pedro J. Ruiz, P.E.
Title: Environmental Engineer
Code: N46E4
Date: May 2005

Reviewed by: Raymond Garay, P.E.
Title: Director, NAPR Public Works Department
Code: N46
Date: May 2005

Approved by: Ronald G. Terrell, LCDR, U.S. Navy
Title: Assistant Officer in Charge
Code: N00A
Date: May 2005

Naval Activity Puerto Rico



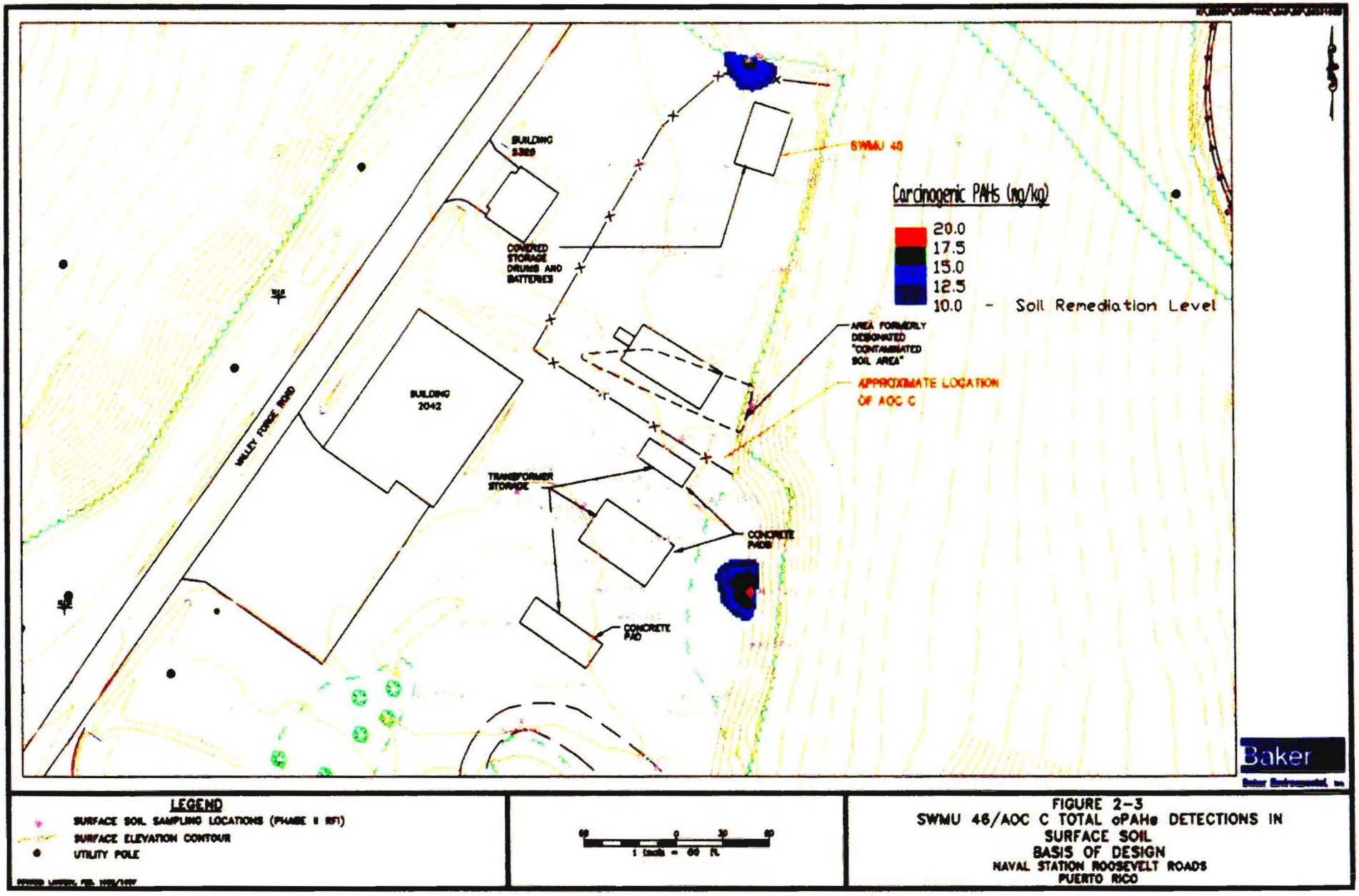


FIGURE 2-3
SWMU 46/AOC C TOTAL cPAHs DETECTIONS IN SURFACE SOIL
BASIS OF DESIGN
NAVAL STATION ROOSEVELT ROADS
PUERTO RICO