



DEPARTMENT OF THE ARMY
SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS
ROOM 9M15, 60 FORSYTH ST., S.W.
ATLANTA, GEORGIA 30303-8801

Boone *JB*
Bridgers *—*
Abley *—*

RECEIVED

SFP 12 2000

In SFO Branch

REPLY TO
ATTENTION OF

CESAD-PM-M (415-10e)

24 August 2000

✓ MEMORANDUM FOR COMMANDER, JACKSONVILLE DISTRICT

SUBJECT: Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS), Inventory Project Report (INPR) Requiring an Ordnance and Explosives (OE) Engineering Evaluation and Cost Analysis (EE/CA) for Project No. IO4FL040101, Passage Key Air-to-Ground Gunnery Range, Manatee County, FL

1. References:

a. Memorandum, CEHNC-OE-CX, 2 August 2000, subject: DERP-FUDS Inventory Project Report (INPR) Requiring an Ordnance and Explosives (OE) Engineering Evaluation and Cost Analysis (EE/CA) for Site No. IO4FL0401, Passage Key Air-to-Ground Gunnery Range, Manatee County, FL (enclosed).

b. Memorandum, CESAD-PD-R, 21 December 1993, subject: DERP-FUDS Inventory Project Report (INPR), Passage Key Air-to-Ground Gunnery Range, Site No. IO4FL040100 (enclosed).

c. Memorandum, CESAJ-PD-EE, 28 September 1993, subject: DERP-FUDS Inventory Project Report (INPR) for Site No. IO4FL040100, Passage Key Air-to-Ground Gunnery Range, Florida (enclosed).

2. Concur with the recommendations detailed in the referenced memorandum 1.a. for initiation of an Ordnance and Explosives (OE) Engineering Evaluation and Cost Analysis (EE/CA) at the subject property. Accordingly, the OE Project Number IO4FL040101 is approved with amended risk assessment code (RAC) of 2.

3. Overall project management of this property is the responsibility of Jacksonville District. In accordance with the DERP-FUDS Program Manual, the Huntsville Center executes site investigation through removal design phases of Ordnance and Explosive Waste (OEW).

4. Request the project manager, in coordination with CEHNC technical managers, update the DERP-FUDS database (FUDSMIS) and include this project in the appropriate DERP-FUDS annual work plan(s). Technical managers will keep the project manager

200.1e

IO4FL040101_01.08_0002



CESAD-PM-M (215-10e)

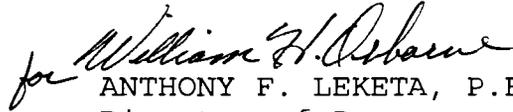
SUBJECT: Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS), Inventory Project Report (INPR) Requiring an Ordnance and Explosives (OE) Engineering Evaluation and Cost Analysis (EE/CA) for Project No. IO4FL040101, Passage Key Air-to-Ground Gunnery Range, Manatee County, FL

informed of all activities concerning subject site. It is suggested that current landowners be notified as described in the DERP-FUDS Program Manual.

5. Questions concerning the INPR should be directed to South Atlantic Division DERP-FUDS Program Manager, Sharon Taylor, CESAD-PM-M, (404) 562-5212.

FOR THE COMMANDER:

3 Encls


ANTHONY F. LEKETA, P.E.
Director of Programs
Management

CF (w/encl):

COMMANDER, HQ USACE, ATTN: CEMP-RF/MS. SARA GOODWIN,
WASH, DC 20314-1000

COMMANDER, JACKSONVILLE DISTRICT, ATTN: CESAJ-PM-S/
MR. ROBERT BRIDGERS

COMMANDER, HUNTSVILLE CENTER, ATTN: Ms CARRIE DOUGLAS,
CORP of ENGINEERS, P.E. BOX 1600, HUNTSVILLE, AL 35807-4301



DEPARTMENT OF THE ARMY
HUNTSVILLE CENTER, CORPS OF ENGINEERS
P.O. BOX 160C
HUNTSVILLE, ALABAMA 35807-4301

REPLY TO
ATTENTION OF

CEHNC-OE-CX

2 August 2000

MEMORANDUM FOR Commander, U.S. Army Engineer Division,
South Atlantic, ATTN: CESAD-PM-M,
60 Forsyth Street, SW, Room 9M15,
Atlanta, GA 30303-8801

SUBJECT: DERP-FUDS Inventory Project Report (INPR) Requiring
an Ordnance and Explosives (OE) Engineering Evaluation and Cost
Analysis (EE/CA) for Site No. I04FL0401, Passage Key Air-to-
Ground Gunnery Range, Manatee County, FL

1. The enclosed INPR was submitted to us for action (encl 1).
After reviewing the INPR, we nonconcur with the recommendation
of risk assessment code (RAC) 3 and the recommended No DOD
Action Indicated (NDAI). With the findings of the two bombs, we
have amended the RAC score to a RAC 2 and recommend that an
EE/CA be scheduled for the following:

DISTRICT	PROJECT NO.	RAC	SITE NAME
SAJ	I04FL040101	2	Passage Key Air-to-Ground Gunnery Range

2. An updated RAC Form has been added as encl 2. Request
approval on the subject project and we be sent a copy of the
approval.

3. The point of contact is Ms. Carrie Douglas at 256-895-1465.

FOR THE DIRECTOR OF ORDNANCE
AND EXPLOSIVES:

2 Encls

Carrie W. Douglas
CARRIE W. DOUGLAS

Inventory Project Report Manager
for Directorate of Ordnance and
Explosives

CEHNC-OE-CX

2 August 2000

SUBJECT: DERP-FUDS Inventory Project Report (INPR) Requiring
an Ordnance and Explosives (OE) Engineering Evaluation and Cost
Analysis (EE/CA) for Site No. I04FL0401, Passage Key Air-to-
Ground Gunnery Range, Manatee County, FL

CF:

Commander, U.S. Army Engineer District, Jacksonville,
ATTN: CESAJ-DP-S, P.O. Box 4970, Jacksonville, FL
32232-0019

Commander, HQUSACE, ATTN: CEMP-RF, 20 Massachusetts Avenue NW,
Washington, DC 20314-1000



DEPARTMENT OF THE ARMY

SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS

ROOM 313, 77 FORSYTH ST., S.W.

ATLANTA, GEORGIA 30335-6801

REPLY TO
ATTENTION OF

21 DEC 1993

CESAD-PD-R (200)

MEMORANDUM FOR

COMMANDER, USACE, ATTN: CEMP-ZA, WASH DC 20314-1000
COMMANDER, HUNTSVILLE DIVISION, HUNTSVILLE, AL 35807-4301SUBJECT: DERP-FUDS Inventory Project Report (INPR), Passage Key
Air to Ground Gunnery Range, Site No. I04FLO40100

1. The "no further action" INPR for the subject site has been signed and is enclosed for your file.
2. The site was evaluated and determined to be eligible for the DERP-FUDS program, but no unsafe debris, hazardous/toxic waste, or containerized hazardous/toxic waste problems resulting from Department of Defense use were found.
3. Even though there exists the potential for an ordnance and explosive waste project (Risk Assessment Code score is 3), I am recommending no further action due to the unlikelihood that a serious safety hazard exists at the site. The site is a small, 36-acre island, accessible only by boat, and contains little or no vegetation. The island is managed by the USFWS as a National Wildlife Refuge for migratory birds and USFWS personnel interviewed were unaware of any ordnance ever being discovered at the site.
4. If CEHND concurs with our recommendation for no further action, the District will notify the current owners of the "no further action" determination.
5. Questions concerning the INPR should be directed to Gary Mauldin, CESAD-PD-R, at 404-331-6043.

Encl



ROGER F. YANKOUBE
Brigadier General, USA
Commanding

CF (w/encl):
CDR, JACKSONVILLE DISTRICT, ATTN: CESAJ-PD-EE

ENC L 1

Gary



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF
CESAJ-PD-EE (1110-2-1150a)

SEP 28 1993

MEMORANDUM FOR Commander, South Atlantic Division

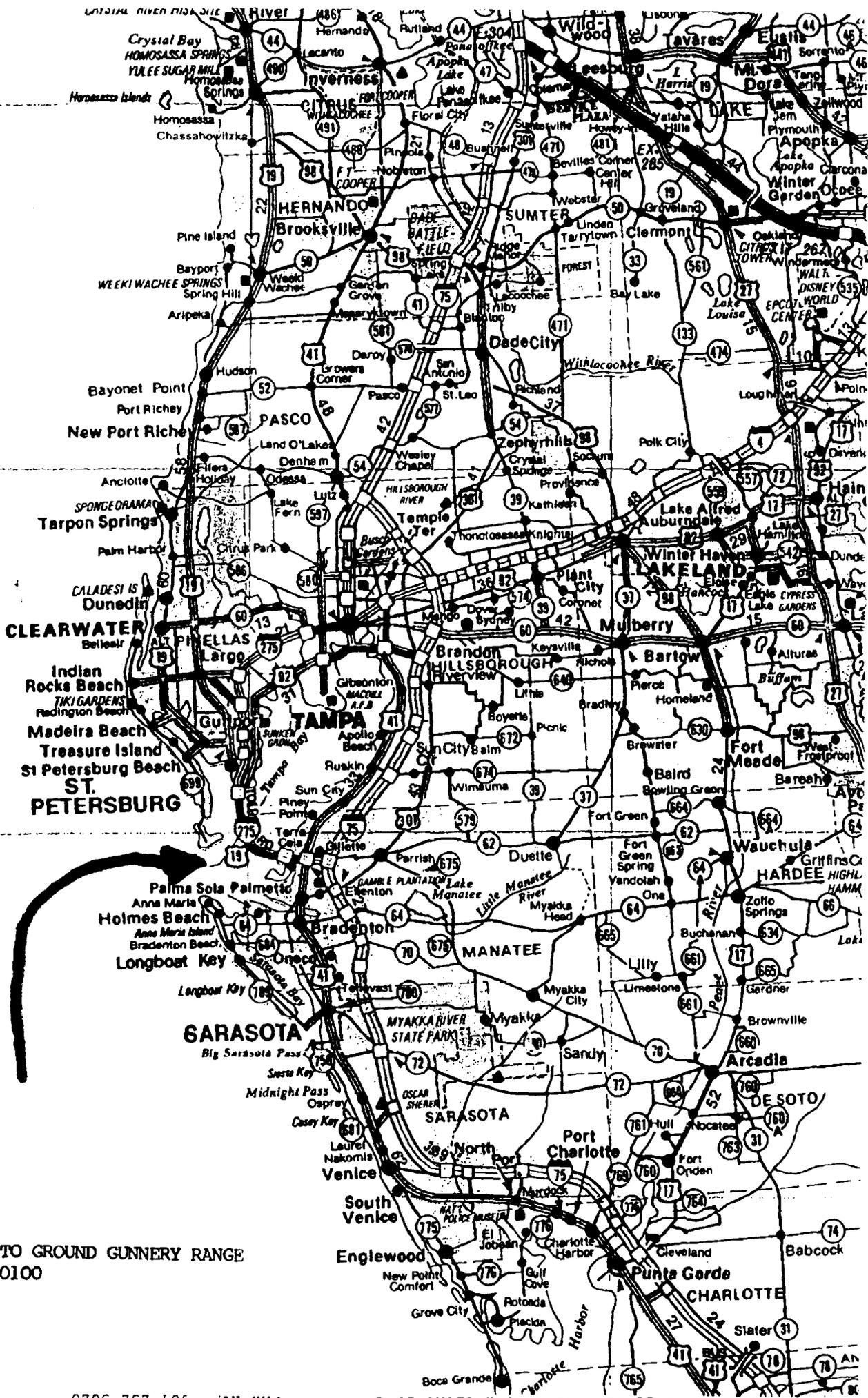
SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Site No. I04FL040100, Passage Key Air To Ground Gunnery Range, Florida

1. This INPR reports on the DERP-FUDS Preliminary Assessment of Passage Key Air To Ground Gunnery Range. The Site Survey Summary Sheet and site map are Enclosure 1.
2. We determined that the site was formerly used by the Department of Defense. A recommended Findings and Determination of Eligibility (FDE) is Enclosure 2.
3. We also determined there is hazardous waste at the site eligible for clean-up under DERP-FUDS. The category of hazardous waste is Ordnance and Explosive Waste (OEW). The Project Summary Sheet is Enclosure 3 for the potential OEW project.
4. I recommend that you:
 - a. Approve and sign the FDE.
 - b. Return this INPR to CESAJ for further coordination with the Huntsville Division. This coordination will result in a determination of the need for further study of the former gunnery range.
5. Point of contact is Russ Jones, 904-232-2168.

3 Encls

TERRENCE C. SALT
Colonel, Corps of Engineers
Commanding

GULF OF MEXICO



PASSAGE KEY AIR TO GROUND GUNNERY RANGE
SITE NO. 104FL040100

SITE SURVEY SUMMARY SHEET
FOR
DERP-FUDS SITE NO. I04FL040100
PASSAGE KEY AIR TO GROUND GUNNERY RANGE, FL
17 SEPTEMBER 1993

SITE NAME: The site was known as Passage Key Air to Ground Gunnery Range and is now known as Passage Key National Wildlife Refuge.

LOCATION: Passage Key is located in Tampa Bay, about ten miles northwest of the city of Bradenton, in Manatee County, Florida.

SITE HISTORY: In 1943, the War Department acquired the 36 acre island for a bombing range assigned to the Sarasota Army Airfield. The Third Army Air Force Fighter Unit utilized the bombing range for training purposes during World War II. The War Department returned the site to the Department of Interior in 1946. The site is currently a National Wildlife Refuge for migratory birds and is managed by the U.S. Fish and Wildlife Service.

SITE VISIT: The site was not visited by Mr. Russell Jones, CESAJ-PD-EE, because it is an uninhabited island accessible only by boat. On 8 December 1992, Mr. Jones spoke with Mr. Cameron Shaw of the U.S. Fish and Wildlife Service about the island. Mr. Shaw has visited the island. He said the island is small (about 0.5 mile long and 0.1 mile wide), flat, sandy, with little vegetation. He has never seen or heard of ordnance being found on the island.

Site POC: Mr. Cameron Shaw
U.S. Fish and Wildlife Service

CATEGORY OF HAZARD: OEW

PROJECT DESCRIPTION: CEHND should make a determination of the need for an investigation of possible subsurface ordnance on the island beyond the scope of the Preliminary Assessment.

AVAILABLE STUDIES AND REPORTS: None.

DISTRICT POC: Russ Jones, CESAJ-PD-EE, 904-232-2168.

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FORMERLY USED DEFENSE SITES
FINDINGS AND DETERMINATION OF ELIGIBILITY

Passage Key Air to Ground Gunnery Range, FL

Site No. I04FL040100

FINDINGS OF FACT

1. On 18 June 1943, the War Department (WD) requested a temporary use permit from the Department of the Interior (DOI), to use a 36.37 acre National Wildlife Refuge Site for a bombing range assigned to the Sarasota Army Air Field. DOI granted the temporary use permit to the WD on 31 August 1943. The site was located in Tampa Bay, about ten miles northwest of the city of Bradenton in Manatee County, Florida, and named Passage Key Air to Ground Gunnery Range.
2. The Third Army Air Force Fighter Unit utilized the bombing range for training purposes during World War II. No information could be located pertaining to any improvements being constructed by the WD or the Army Air Force. Therefore, it is unknown whether or not there were any improvements constructed on the site.
3. The WD determined there was no longer a military necessity for use of the site, the permit was relinquished and the 36.37 acres were returned to the DOI on 22 March 1946. Currently, the site is being used by the DOI as a National Wildlife Refuge for migratory birds, operated by the United States Fish and Wildlife Service.

DETERMINATION

Based on the foregoing findings of fact, the Passage Key Air to Ground Gunnery Range, Florida, has been determined to be formerly used by the Department of Defense. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 USC 2701, et seq.

DATE

ROGER F. YANKOUPE
Brigadier General, USA
Commanding

PROJECT SUMMARY SHEET
FOR
DERP-FUDS OEW PROJECT NO. I04FL040101
PASSAGE KEY AIR TO GROUND GUNNERY RANGE, FL
SITE NO. I04FL040100
17 SEPTEMBER 1993

PROJECT DESCRIPTION: The Third Army Air Force Fighter Unit stationed at Sarasota Army Airfield used Passage Key as a bombing range for training purposes during World War II. It is uncertain what part of the island was used for this purpose, but because of its small size (36 acres) the whole island has the potential for containing subsurface ordnance. Our records do not indicate what type of ordnance was dropped or fired at the island by the aircraft. Our records also do not show if ordnance clearance was performed by the Army prior to the site being returned to the Department of the Interior. It is apparent that at least surface clearance was conducted.

PROJECT ELIGIBILITY: There is no documented evidence to support this proposed project but further consideration is recommended.

POLICY CONSIDERATIONS: This potential project appears to satisfy all current policy considerations regarding OEW.

PROPOSED ACTIVITIES: CEHND should make a determination of the need for an investigation of possible subsurface ordnance on the island beyond the scope of the Preliminary Assessment.

RISK ASSESSMENT: A Risk Assessment Code (RAC) of 3 has been assigned to this project (see attached Risk Assessment Procedures). This score was assigned based on the assumption that there are subsurface explosive bombs on the island.

DISTRICT POC: Russ Jones, CESAJ-PD-EE, 904-232-2168.

RISK ASSESSMENT PROCEDURES FOR
ORDNANCE AND EXPLOSIVE WASTE (OEW) SITES

Site Name Passage Key A-T-6 Range Rater's Name Russell Jones
 Site Location Passage Key, Florida Phone No. 904-232-2168
 DERP Project # TD4FL040101 Organization CESAJ-PD-EE
 Date Completed September 17, 1993 RAC Score 3

OEW RISK ASSESSMENT:

This risk assessment procedure was developed in accordance with MIL-STD 882B and AR 385-10. The RAC score will be used by CEHND to prioritize the remedial action at this site. The OEW risk assessment should be based upon best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) detachment actions, and field observations, interviews, and measurements. This information is used to assess the risk involved based upon the potential OEW hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OEW sites should view the CEHND videotape entitled "A Life Threatening Encounter: OEW."

Part I. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items.

TYPE OF ORDNANCE
(Circle all values that apply)

A. Conventional Ordnance and Ammunition

	VALUE
Medium/Large Caliber (20 mm and larger)	10
Bombs, Explosive	(10)
Grenades, Hand and Rifle, Explosive	10
Landmines, Explosive	10
Rockets, Guided Missiles, Explosive	10
Detonators, Blasting Caps, Fuzes, Boosters, Bursterns	6
Bombs, Practice (w/spotting charges)	6
Grenades, Practice (w/spotting charges)	4
Landmines, Practice (w/spotting charges)	4
Small Arms (.22 cal - .50 cal)	1
Conventional Ordnance and Ammunition (Select the largest single value)	10

What evidence do you have regarding conventional OEW? No evidence, this is based on a worst case assumption of subsurface explosive bombs.

B. Pyrotechnics (For munitions not described above.)

VALUE

Munition (Container) Containing
White Phosphorus or other
Pyrophoric Material (i.e.,
Spontaneously Flammable) 10

Munition Containing A Flame
or Incendiary Material (i.e.,
Napalm, Triethylaluminum Metal
Incendiaries) 6

Flares, Signals, Simulators 4

Pyrotechnics (Select the largest single value) 0

What evidence do you have regarding pyrotechnics? _____

C. Bulk High Explosives (Not an integral part of conventional ordnance;
uncontainerized.)

VALUE

Primary or Initiating Explosives
(Lead Styphnate, Lead Azide,
Nitroglycerin, Mercury Azide,
Mercury Fulminate, Tetracene, etc.) 10

Demolition Charges 10

Secondary Explosives
(PETN, Compositions A, B, C,
Tetryl, TNT, RDX, HMX, HBX,
Black Powder, etc.) 8

Military Dynamite 6

Less Sensitive Explosives
(Ammonium Nitrate, Explosive D, etc.) 3

High Explosives (Select the largest single value) 0

What evidence do you have regarding bulk explosives? _____

D. Bulk Propellants (Not an integral part of rockets, guided missiles, or
other conventional ordnance; uncontainerized)

VALUE

Solid or Liquid Propellants 6

Propellants 0

What evidence do you have regarding bulk propellants? _____

Part II. Hazard Probability. The probability that a hazard has been or will be created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used DOD site.

AREA, EXTENT, ACCESSIBILITY OF OEW HAZARD
(Circle all values that apply)

A. Locations of OEW Hazards

VALUE

On the surface

5

E. Radiological/Chemical Agent/Weapons

VALUE

Toxic Chemical Agents
(Choking, Nerve, Blood, Blister)

25

War Gas Identification Sets

20

Radiological

15

Riot Control and Miscellaneous
(Vomiting, Tear, incendiary and smoke)

5

Radiological/Chemical Agent (Select the largest single value)

0

What evidence do you have of chemical/radiological OEW? _____

Total Hazard Severity Value

(Sum of Largest Values for A through E--Maximum of 61).

Apply this value to Table 1 to determine Hazard Severity Category.

TABLE 1

HAZARD SEVERITY*

Description	Category	Value
CATASTROPHIC	I	≥21
CRITICAL	II	≥10 <21
MARGINAL	III	≥5 <10
NEGLIGIBLE	IV	≥1 <5
**NONE		0

* Apply Hazard Severity Category to Table 3.

**If Hazard Severity Value is 0, you do not need to complete Part II. Proceed to Part III and use a RAC Score of 5 to determine your appropriate action.

Part II. Hazard Probability. The probability that a hazard has been or will be created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used DOD site.

AREA, EXTENT, ACCESSIBILITY OF OEW HAZARD
(Circle all values that apply)

A. Locations of OEW Hazards

	VALUE
On the surface	5
Within Tanks, Pipes, Vessels or Other confined locations.	4
Inside walls, ceilings, or other parts of Buildings or Structures.	3
Subsurface	②
Location (Select the single largest value)	<u>2</u>

What evidence do you have regarding location of OEW? None, but if there is ordnance, it would be subsurface.

B. Distance to nearest inhabited locations or structures likely to be at risk from OEW hazard (roads, parks, playgrounds, and buildings).

	VALUE
Less than 1250 feet	5
1250 feet to 0.5 miles	4
0.5 miles to 1.0 mile	3
1.0 mile to 2.0 miles	②
Over 2 miles	1
Distance (Select the single largest value)	<u>2</u>

What are the nearest inhabited structures? South, on Anna Maria Island.

C. Numbers of buildings within a 2 mile radius measured from the OEW hazard area, not the installation boundary.

	VALUE
26 and over	5
16 to 25	4
11 to 15	3
6 to 10	2
1 to 5	1
0	0

Number of Buildings (Select the single largest value)

5

Narrative Northern end of Anna Maria Island is residential.

D. Types of Buildings (within a 2 mile radius)

	VALUE
Educational, Child Care, Residential, Hospitals, Hotels, Commercial, Shopping Centers	5
Industrial, Warehouse, etc.	4
Agricultural, Forestry, etc.	3
Detention, Correctional	2
No Buildings	0

Types of Buildings (Select the largest single value)

5

Describe types of buildings in the area. Residential area (houses, etc.)

E. Accessibility to site refers to access by humans to ordnance and explosive wastes. Use the following guidance:

BARRIER	VALUE
No barrier or security system	5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing.	4
A barrier, (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site.	3
Security guard, but no barrier	2
Isolated site	①
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which continuously monitors and controls entry onto the facility; or An artificial or natural barrier (e.g., a fence combined with a cliff), which completely surrounds the facility; and a means to control entry, at all times, through the gates or other entrances to the facility (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the facility).	0
Accessibility (Select the single largest value)	<u>1</u>

Describe the site accessibility. Site is an uninhabited island.

F. Site Dynamics - This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion by beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.

	VALUE
Expected	⑤
None Anticipated	0
Site Dynamics (Select largest value)	<u>5</u>

Describe the site dynamics. The island is small and flat. Beach erosion is a possibility.

 Total Hazard Probability Value 20
 (Sum of Largest Values for A through F--Maximum of 30)
 Apply this value to Hazard Probability Table 2 to determine
 Hazard Probability Level.

TABLE 2

HAZARD PROBABILITY

Description	Level	Value
FREQUENT	A	≥27
PROBABLE	B	≥21 <27
OCCASIONAL	<u>C</u>	≥15 <21
REMOTE	D	≥ 8 <15
IMPROBABLE	E	<8

* Apply Hazard Probability Level to Table 3.

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table 3. Enter with the results of the hazard probability and hazard severity values.

TABLE 3

Probability Level		FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
Severity Category:						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Imminent Hazard - Expedite INPR - Immediately call CEHND-ED-SY--commercial 205-955-4968 or DSN 645-4968.
- RAC 2 High priority on completion of INPR - Recommend further action by CEHND.
- RAC 3 Complete INPR - Recommend further action by CEHND.
- RAC 4 Complete INPR - Recommend further action by CEHND.
- RAC 5 Recommend no further action. Submit NOFA and RAC to CEHND.

Part IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

There is no evidence of subsurface explosive ordnance (bombs) on this island but this was used as a worst case assumption. It is uncertain what type of ordnance was dropped or fired at this island by aircraft.

RISK ASSESSMENT PROCEDURES FOR
 ORDNANCE AND EXPLOSIVE (OE) SITES

Site Name Passage Key Air to Ground Range Rater's Name Jerry Thornton
 Site Location Passage Key, Manatee Co., FL Phone No. 256-895-1792
 DERP Project I04FL040101 Organization CEHNC-OE-S-E
 Date Completed 31 May, 2000 Score 3220

OE RISK ASSESSMENT: All areas.

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U. S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) detachment actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, **hazard severity** and **hazard probability**. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW."

Part I. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items.

TYPE OF ORDNANCE
 (Circle all values that apply)

A.	Conventional Ordnance and Ammunition:	VALUE
	Medium/Large Caliber (20 mm and larger)	10
	<u>Bombs, Explosive</u>	<u>10</u>
	Grenades, Hand and Rifle, Explosive	10
	Landmines, Explosive	10
	Rockets, Guided Missiles, Explosive	10
	Detonators, Blasting Caps, Fuzes, Boosters, Bursterns	6
	Bombs, Practice (w/spotting charges)	6
	Grenades, Practice (w/spotting charges)	4
	Landmines, Practice (w/spotting charges)	4
	Small Arms, complete (.22 cal - .50 cal)	1
	Small Arms, Expended	0

ENCL 2

18 JUNE 1999

Practice ordnance (wo/spotting charges) 0
Conventional Ordnance and Ammunition (Select the largest single value) 10

What evidence do you have regarding conventional UXO? Two 100 pound photoflash bombs were discovered at this site in 1998. One was on land and the other in shallow water. Military EOD disposed of them. Navy EOD reported other bombs below the water surface.

B. Pyrotechnics (for munitions not described above.)

	VALUE
Munition (Container) Containing White Phosphorus or other Pyrophoric Material (i.e., Spontaneously Flammable)	10
Munition Containing A Flame or Incendiary Material (i.e., Napalm, Triethylaluminum Metal Incendiaries)	6
Flares, Signals, Simulators	4
Pyrotechnics (Select the largest single value)	<u>0</u>

What evidence do you have regarding pyrotechnics? None.

C. Bulk High Explosives (Not an integral part of conventional ordnance: uncontainerized.)

	VALUE
Primary or Initiating Explosives (Lead Styphnate, Lead Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Tetracene, etc.)	10
Demolition Charges	10
Secondary Explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8

18 JUNE 1999

Military Dynamite	6
Less Sensitive Explosives (Ammonium Nitrate, Explosive D, etc.)	3
High Explosives (Select the largest single value)	<u>0</u>
What evidence do you have regarding bulk explosives? <u>None.</u>	

D. Bulk Propellants (Not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized)

	VALUE
Solid or Liquid Propellants	6
Propellants	<u>0</u>
What evidence do you have regarding bulk propellants? <u>None.</u>	

E. Chemical Warfare Material and Radiological Weapons

	VALUE
Toxic Chemical Agents (Choking, Nerve, Blood, Blister)	25
War Gas Identification Sets	20
Radiological	15
Riot Control Agents (Vomiting, Tear)	5
Chemical and Radiological (Select the largest single value)	<u>0</u>
What evidence do you have of chemical/radiological OE? <u>None.</u>	

=====

TOTAL HAZARD SEVERITY VALUE	<u>10</u>
(Sum of Largest Values for A through E—Maximum of 61)	
Apply this value to Table 1 to determine Hazard Severity Category.	

TABLE 1
HAZARD SEVERITY*1

Description	Category	Hazard Severity Value
CATASTROPHIC	I	21 and greater
CRITICAL	II	10 to 20
MARGINAL	III	5 to 9
NEGLIGIBLE	IV	1 to 4
**NONE		0

* Apply Hazard Severity Category to Table 3.

**If Hazard Severity Value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC Score of 5 to determine your appropriate action.

Part II. Hazard Probability. The probability that a hazard has been or will be created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used Department of Defense (DoD) site.

AREA, EXTENT, ACCESSIBILITY OF OE HAZARD
(Circle all values that apply)

A. Locations of OE Hazards

	VALUE
On the surface	5
Within Tanks, Pipes, Vessels or Other confined locations.	4
Inside walls, ceilings, or other parts of Buildings or Structures.	3
Subsurface	2

Location (Select the single largest value)

5

What evidence do you have regarding location of OE? One bomb had washed up on the beach and the other was still underwater.

18 JUNE 1999

B. Distance to nearest inhabited locations or structures likely to be at risk from OE hazard roads, parks, playgrounds, and buildings).

	VALUE
Less than 1250 feet	5
1250 feet to 0.5 miles	4
0.5 miles to 1.0 mile	3
1.0 mile to 2.0 miles	2
Over 2 miles	1
Distance (Select the single largest value)	<u>2</u>

What are the nearest inhabited structures/buildings? South, on Anna Maria Island.

C. Number of buildings within a 2 mile radius measured from the OE hazard area, not the installation boundary.

	VALUE
26 and over	5
16 to 25	4
11 to 15	3
6 to 10	2
1 to 5	1
0	0
Number of Buildings (Select the single largest value)	<u>5</u>

Narrative Northern end of Anna Maria Island is residential.

18 JUNE 1999

D. Types of Buildings (within a 2 mile radius)

VALUE

Educational, Child Care, Residential, Hospitals, Hotels, Commercial, Shopping Centers	5
Industrial, Warehouse, etc.	4
Agricultural, Forestry, etc.	3
Detention, Correctional	2
No Buildings	0
Types of Buildings (Select the largest single value)	<u>5</u>

Describe types of buildings in the area. Residential area.

E. Accessibility to site refers to access by humans to ordnance and explosive wastes. Use the following guidance:

BARRIER	VALUE
No barrier or security system	5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing.	4
A barrier, (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site.	3
Security guard, but no barrier	2
Isolated site	1
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which continuously monitors and controls entry onto the facility; or An artificial or natural barrier (e.g., a fence combined with a cliff), which completely surrounds the facility; and a means to control entry, at all times,	0

through the gates or other entrances to the facility (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the facility)

Accessibility (Select the single largest value) 1

Describe the site accessibility. The site is uninhabited and a wildlife refuge.

F. Site Dynamics - This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion by beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.

	VALUE
Expected	5
None Anticipated	0
Site Dynamics (Select largest value)	<u>5</u>

Describe the site dynamics. Beach erosion and surf action uncovers the ordnance.

TOTAL HAZARD PROBABILITY VALUE
 (Sum of Largest Values for A through F—Maximum of 30) 23
Apply this value to Hazard Probability Table 2 to determine Hazard Probability Level.

TABLE 2

HAZARD PROBABILITY

Description	Level	Hazard Probability Value
FREQUENT	A	27 or greater
PROBABLE	B	21 to 26
OCCASIONAL	C	15 to 20
REMOTE	D	8 to 14

IMPROBABLE

E

less than 8

* Apply Hazard Probability Level to Table 3.

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table 3. Enter with the results of the hazard probability and hazard severity values.

TABLE 3

Probability Level	FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
Severity Category:					
CATASTROPHIC I	1	1	2	3	4
CRITICAL II	1	2	3	4	5
MARGINAL III	2	3	4	4	5
NEGLIGIBLE IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

RAC 1 Expedite INPR, recommending further action by USAESCH - Immediately call USAESCH-OE-S (commercial 256-895-1582/1598)

RAC 2 High priority on completion of INPR - Recommend further action by USAESCH.

RAC 3 Complete INPR - Recommend further action by USAESCH.

RAC 4 Complete INPR - Recommend further action by USAESCH.

RAC 5 Usually indicates that No DOD Action Indicated (NDAI) is necessary. Submit NDAI and RAC to USAESCH.

=====
 Part IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made. **This site was originally assigned a RAC 3 but was recommended a NOFA because of unconfirmed ordnance presence and its remoteness. Since two photoflash bombs have been found this confirms the presence of hazardous ordnance and raises the RAC to a 2.**

EXPLOSIVE ORDNANCE DISPOSAL REPORT										Report Control Symbol	
TO HQ AFCEA/DXO 139 BARNES DRIVE, SUITE 1 TYNDALL AFB FL 32403-5319				THRU (MAJCOM) HQ AMC/CEOX 507 SYMINGTON STREET SCOTT AFB, IL 62225-5022				FROM 6 CES/CED 7621 HILLSBOROUGH LOOP DR. MACDILL AFB, FL 33621-5207			
1. REPORTED BY Sgt Lance Connors Hillsborough County Bomb Squad Tampa, FL				2. UNIT CONTROL NUMBER F806S-98-0035				3. REPORTED		TIME	DATE
								START		10 00	25 Nov 98
								STOP		18 30	25 Nov 98
4. PARTICIPATING		M/M	5. SPECIAL IDENTIFIER (Codes for Blocks 5, 6, and 7 on Reverse)					6. INJURY/DAMAGE INFORMATION			
EOD	4	34	INCIDENT A 0 6	ORDNANCE B 0 6	SUPPORT C 0 6	CATEGORY D 0 1	INJURY A 0 1	PROPERTY INFO B 0 1			
7. ORDNANCE INVOLVED											
NATL A	CLASS B	QUANTITY C	NOMENCLATURE D			RSP E	DP F	TECH DATA G			
2	5	1	AN-M46 Photoflash Bomb, 100 lbs.			0 3	0 1	60B-2-2-27, Para. 6-3.2.			
						0	0				
						0	0				
						0	0				
						0	0				
						0	0				
						0	0				
						0	0				
						0	0				
						0	0				
8. NARRATIVE (Use continuation sheets as necessary.)											
0930, 25 Nov - Sgt Lance Connors contacted the EOD Flight requesting assistance to identify a bomb that had washed up on the shore of Passage Key, FL, on federal land. EOD contacted MacDill command post.											
1000 - We flew out by chopper to do a recon. The bomb was a live, AN/M46 100lb. photoflash with the fuze completely covered in barnacles. The fuze type and condition could not be positively determined.											
1200 - The team returned to MacDill AFB to get explosives, obtain EPA coordination, and get the Hillsborough County's boat.											
1330 - The EOD team departed by boat from the base boat dock.											
1800 - The EOD team returned after a safe and successful operation.											
PERSONNEL PARTICIPATING: TSgt David A. Erickson SrA Hubert D. Arrendale						SSgt Michael K. Land SrA David R. Ellenburg					
9. NUMBER OF ATTACHMENTS		10. TYPED/PRINTED NAME AND SIGNATURE OF TEAM CHIEF				11. TYPED/PRINTED NAME AND SIGNATURE OF SUPERVISOR				12. DATE	
0		 MICHAEL K. LAND, SSgt, USAF				 DAVID A. ERICKSON, TSgt, USAF				25 Nov 98	
13. SIGNATURE OF MAJCOM STAFF MANAGER						14. MAJCOM COMMENTS				15. DATE	
						<input type="checkbox"/> CONCUR <input type="checkbox"/> NON-CONCUR <input type="checkbox"/> N/A					

CORPS FAX HEADER

DATE: 1 June 2000

*faxed
6:00
340pm
J*

<u>Name</u>	<u>Office</u>	<u>Telephone #</u>	<u>FAX #</u>
To: Danny Mardis			256-895-1798
From:			
Abby Hernandez	U.S. Army	904-232-3420	904-232-3920
	Corps of Engineers		
(for Tom Freeman)			

Total Pages : 16 (includes header)

Mr. Mardis:

Forwarded to you per request of Mr. Tom Freeman.

Abby Hernandez
CESAJ-DP-S
Jacksonville District
(904)232-3420

US Army Corps of Engineers, Jacksonville District
PO Box 4970, Jacksonville, FL 32232-0019



DEPARTMENT OF THE ARMY

SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS

ROOM 313, 77 FORSYTH ST., S.W.

ATLANTA, GEORGIA 30335-6801

REPLY TO
ATTENTION OF:

21 DEC 1993

CESAD-PD-R (200)

MEMORANDUM FOR

COMMANDER, USACE, ATTN: CEMP-ZA, WASH DC 20314-1000
COMMANDER, HUNTSVILLE DIVISION, HUNTSVILLE, AL 35807-4301

SUBJECT: DERP-FUDS Inventory Project Report (INPR), Passage Key
Air to Ground Gunnery Range, Site No. I04FL040100

1. The "no further action" INPR for the subject site has been signed and is enclosed for your file.
2. The site was evaluated and determined to be eligible for the DERP-FUDS program, but no unsafe debris, hazardous/toxic waste, or containerized hazardous/toxic waste problems resulting from Department of Defense use were found.
3. Even though there exists the potential for an ordnance and explosive waste project (Risk Assessment Code score is 3), I am recommending no further action due to the unlikelihood that a serious safety hazard exists at the site. The site is a small, 36-acre island, accessible only by boat, and contains little or no vegetation. The island is managed by the USFWS as a National Wildlife Refuge for migratory birds and USFWS personnel interviewed were unaware of any ordnance ever being discovered at the site.
4. If CEHND concurs with our recommendation for no further action, the District will notify the current owners of the "no further action" determination.
5. Questions concerning the INPR should be directed to Gary Mauldin, CESAD-PD-R, at 404-331-6043.

Encl


ROGER F. YANKOUBE
Brigadier General, USA
Commanding

CF (w/encl):
CDR, JACKSONVILLE DISTRICT, ATTN: CESAJ-PD-EE

Gang



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF
CESAJ-PD-EE (1110-2-1150a)

SEP 28 1993

MEMORANDUM FOR Commander, South Atlantic Division

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Site No. I04FL040100, Passage Key Air To Ground Gunnery Range, Florida

1. This INPR reports on the DERP-FUDS Preliminary Assessment of Passage Key Air To Ground Gunnery Range. The Site Survey Summary Sheet and site map are Enclosure 1.
2. We determined that the site was formerly used by the Department of Defense. A recommended Findings and Determination of Eligibility (FDE) is Enclosure 2.
3. We also determined there is hazardous waste at the site eligible for clean-up under DERP-FUDS. The category of hazardous waste is Ordnance and Explosive Waste (OEW). The Project Summary Sheet is Enclosure 3 for the potential OEW project.
4. I recommend that you:
 - a. Approve and sign the FDE.
 - b. Return this INPR to CESAJ for further coordination with the Huntsville Division. This coordination will result in a determination of the need for further study of the former gunnery range.
5. Point of contact is Russ Jones, 904-232-2168.

3 Encls

TERRENCE C. SALT
Colonel, Corps of Engineers
Commanding

SITE SURVEY SUMMARY SHEET
FOR
DERP-FUDS SITE NO. I04FL040100
PASSAGE KEY AIR TO GROUND GUNNERY RANGE, FL
17 SEPTEMBER 1993

SITE NAME: The site was known as Passage Key Air to Ground Gunnery Range and is now known as Passage Key National Wildlife Refuge.

LOCATION: Passage Key is located in Tampa Bay, about ten miles northwest of the city of Bradenton, in Manatee County, Florida.

SITE HISTORY: In 1943, the War Department acquired the 36 acre island for a bombing range assigned to the Sarasota Army Airfield. The Third Army Air Force Fighter Unit utilized the bombing range for training purposes during World War II. The War Department returned the site to the Department of Interior in 1946. The site is currently a National Wildlife Refuge for migratory birds and is managed by the U.S. Fish and Wildlife Service.

SITE VISIT: The site was not visited by Mr. Russell Jones, CESAJ-PD-EE, because it is an uninhabited island accessible only by boat. On 8 December 1992, Mr. Jones spoke with Mr. Cameron Shaw of the U.S. Fish and Wildlife Service about the island. Mr. Shaw has visited the island. He said the island is small (about 0.5 mile long and 0.1 mile wide), flat, sandy, with little vegetation. He has never seen or heard of ordnance being found on the island.

Site POC: Mr. Cameron Shaw
U.S. Fish and Wildlife Service

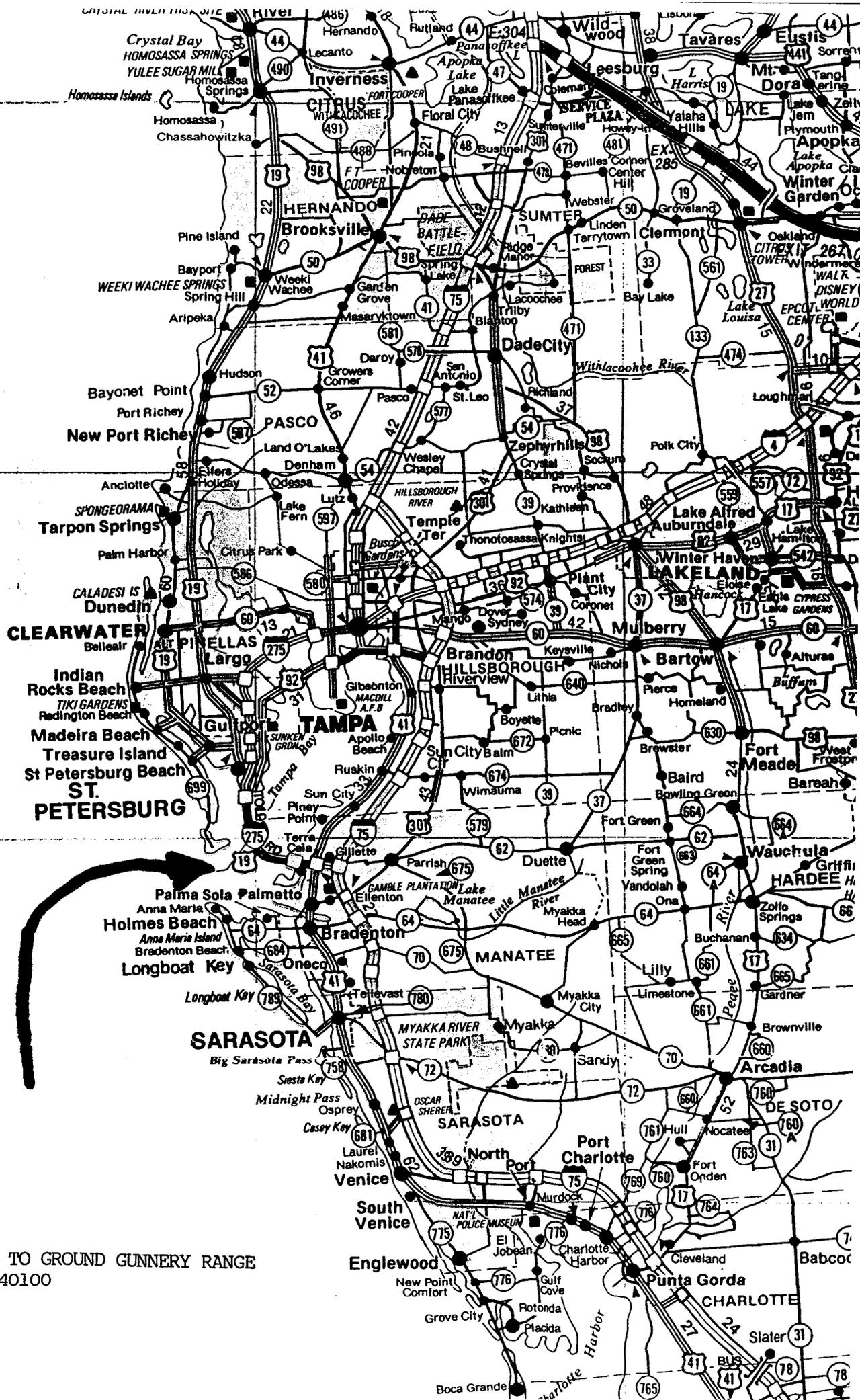
CATEGORY OF HAZARD: OEW

PROJECT DESCRIPTION: CEHND should make a determination of the need for an investigation of possible subsurface ordnance on the island beyond the scope of the Preliminary Assessment.

AVAILABLE STUDIES AND REPORTS: None.

DISTRICT POC: Russ Jones, CESAJ-PD-EE, 904-232-2168.

GULF OF MEXICO

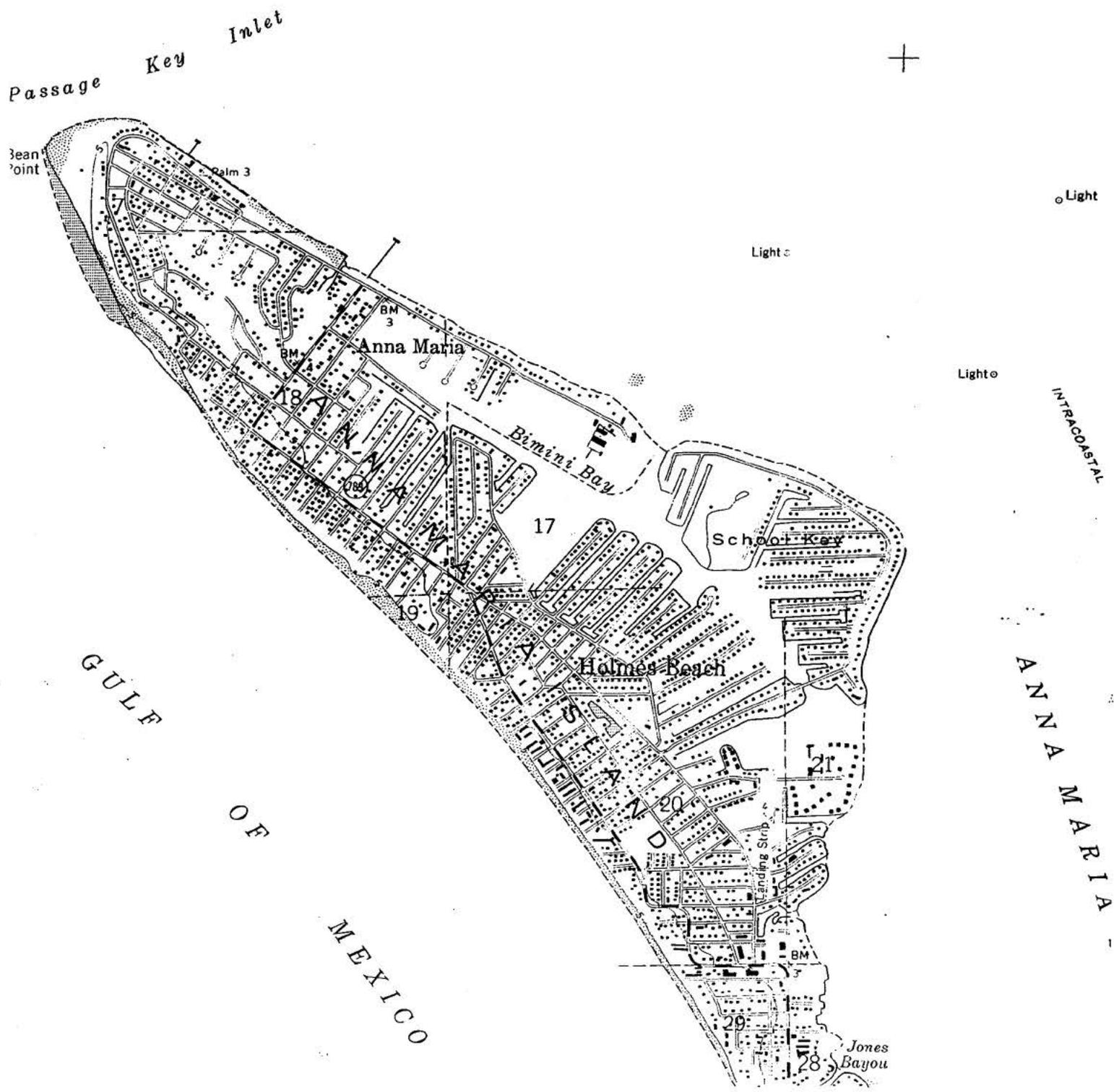


PASSAGE KEY AIR TO GROUND GUNNERY RANGE
SITE NO. I04FL040100

Passage Key
 Tidal Flat
 PASSAGE KEY
 NATIONAL WILDLIFE REFUGE



PASSAGE KEY AIR TO GROUND GUNNERY RANGE
 SITE NO. I04FL040100



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FORMERLY USED DEFENSE SITES
FINDINGS AND DETERMINATION OF ELIGIBILITY

Passage Key Air to Ground Gunnery Range, FL

Site No. I04FL040100

FINDINGS OF FACT

1. On 18 June 1943, the War Department (WD) requested a temporary use permit from the Department of the Interior (DOI), to use a 36.37 acre National Wildlife Refuge Site for a bombing range assigned to the Sarasota Army Air Field. DOI granted the temporary use permit to the WD on 31 August 1943. The site was located in Tampa Bay, about ten miles northwest of the city of Bradenton in Manatee County, Florida, and named Passage Key Air to Ground Gunnery Range.
2. The Third Army Air Force Fighter Unit utilized the bombing range for training purposes during World War II. No information could be located pertaining to any improvements being constructed by the WD or the Army Air Force. Therefore, it is unknown whether or not there were any improvements constructed on the site.
3. The WD determined there was no longer a military necessity for use of the site, the permit was relinquished and the 36.37 acres were returned to the DOI on 22 March 1946. Currently, the site is being used by the DOI as a National Wildlife Refuge for migratory birds, operated by the United States Fish and Wildlife Service.

DETERMINATION

Based on the foregoing findings of fact, the Passage Key Air to Ground Gunnery Range, Florida, has been determined to be formerly used by the Department of Defense. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 USC 2701, et seq.

20/12/93
DATE



ROGER F. YANKOUBE
Brigadier General, USA
Commanding

PROJECT SUMMARY SHEET
FOR
DERP-FUDS OEW PROJECT NO. I04FL040101
PASSAGE KEY AIR TO GROUND GUNNERY RANGE, FL
SITE NO. I04FL040100
17 SEPTEMBER 1993

PROJECT DESCRIPTION: The Third Army Air Force Fighter Unit stationed at Sarasota Army Airfield used Passage Key as a bombing range for training purposes during World War II. It is uncertain what part of the island was used for this purpose, but because of its small size (36 acres) the whole island has the potential for containing subsurface ordnance. Our records do not indicate what type of ordnance was dropped or fired at the island by the aircraft. Our records also do not show if ordnance clearance was performed by the Army prior to the site being returned to the Department of the Interior. It is apparent that at least surface clearance was conducted.

PROJECT ELIGIBILITY: The project has been evaluated in accordance with Standing Operational Procedures (SOP) for performing Preliminary Assessments at potential OEW sites, dated 26 March 1993.

POLICY CONSIDERATIONS: This potential project appears to satisfy all current policy considerations regarding OEW.

PROPOSED ACTIVITIES: None. The site is a small island with practically no vegetation and is inaccessible to the public, except by boat. The likelihood of this site presenting a safety hazard to the public is small and therefore, does not warrant further study.

RISK ASSESSMENT: A Risk Assessment Code (RAC) of 3 has been assigned to this project (see attached Risk Assessment Procedures). This score was assigned based on the assumption that there are subsurface explosive bombs on the island. However, we are recommending no further action for this site.

DISTRICT POC: Russ Jones, CESAJ-PD-EE, 904-232-2168.

RISK ASSESSMENT PROCEDURES FOR
ORDNANCE AND EXPLOSIVE WASTE (OEW) SITES

Site Name Passage Key A-T-G Range Rater's Name Russell Jones
 Site Location Passage Key, Florida Phone No. 904-232-2168
 DERP Project # ID4FLO40101 Organization CESAJ-PD-EE
 Date Completed September 17, 1993 RAC Score 3

OEW RISK ASSESSMENT:

This risk assessment procedure was developed in accordance with MIL-STD 882B and AR 385-10. The RAC score will be used by CEHND to prioritize the remedial action at this site. The OEW risk assessment should be based upon best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) detachment actions, and field observations, interviews, and measurements. This information is used to assess the risk involved based upon the potential OEW hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OEW sites should view the CEHND videotape entitled "A Life Threatening Encounter: OEW."

Part I. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items.

TYPE OF ORDNANCE
(Circle all values that apply)

A. Conventional Ordnance and Ammunition	VALUE
Medium/Large Caliber (20 mm and larger)	10
Bombs, Explosive	(10)
Grenades, Hand and Rifle, Explosive	10
Landmines, Explosive	10
Rockets, Guided Missiles, Explosive	10
Detonators, Blasting Caps, Fuzes, Boosters, Bursters	6
Bombs, Practice (w/spotting charges)	6
Grenades, Practice (w/spotting charges)	4
Landmines, Practice (w/spotting charges)	4
Small Arms (.22 cal - .50 cal)	1
Conventional Ordnance and Ammunition (Select the largest single value)	10

What evidence do you have regarding conventional OEW? No evidence, this is based on a worst case assumption of subsurface explosive bombs.

B. Pyrotechnics (For munitions not described above.)

	VALUE
Munition (Container) Containing White Phosphorus or other Pyrophoric Material (i.e., Spontaneously Flammable)	10
Munition Containing A Flame or Incendiary Material (i.e., Napalm, Triethylaluminum Metal Incendiaries)	6
Flares, Signals, Simulators	4
Pyrotechnics (Select the largest single value)	<u>0</u>
What evidence do you have regarding pyrotechnics?	_____

C. Bulk High Explosives (Not an integral part of conventional ordnance;
uncontainerized.)

	VALUE
Primary or Initiating Explosives (Lead Styphnate, Lead Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Tetracene, etc.)	10
Demolition Charges	10
Secondary Explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8
Military Dynamite	6
Less Sensitive Explosives (Ammonium Nitrate, Explosive D, etc.)	3
High Explosives (Select the largest single value)	<u>0</u>
What evidence do you have regarding bulk explosives?	_____

D. Bulk Propellants (Not an integral part of rockets, guided missiles, or
other conventional ordnance; uncontainerized)

	VALUE
Solid or Liquid Propellants	6
Propellants	<u>0</u>
What evidence do you have regarding bulk propellants?	_____

E. Radiological/Chemical Agent/Weapons

	VALUE
Toxic Chemical Agents (Choking, Nerve, Blood, Blister)	25
War Gas Identification Sets	20
Radiological	15
Riot Control and Miscellaneous (Vomiting, Tear, incendiary and smoke)	5
Radiological/Chemical Agent (Select the largest single value)	<u>0</u>

What evidence do you have of chemical/radiological OEW? _____

Total Hazard Severity Value _____
 (Sum of Largest Values for A through E--Maximum of 61).
 Apply this value to Table 1 to determine Hazard Severity Category.

TABLE 1

HAZARD SEVERITY*

Description	Category	Value
CATASTROPHIC	I	≥21
CRITICAL	II	≥10 <21
MARGINAL	III	≥5 <10
NEGLIGIBLE	IV	≥1 <5
**NONE		0

* Apply Hazard Severity Category to Table 3.

**If Hazard Severity Value is 0, you do not need to complete Part II. Proceed to Part III and use a RAC Score of 5 to determine your appropriate action.

Part II. Hazard Probability. The probability that a hazard has been or will be created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used DOD site.

AREA, EXTENT, ACCESSIBILITY OF OEW HAZARD
(Circle all values that apply)

A. Locations of OEW Hazards

	VALUE
On the surface	5
Within Tanks, Pipes, Vessels or Other confined locations.	4
Inside walls, ceilings, or other parts of Buildings or Structures.	3
Subsurface	②
Location (Select the single largest value)	<u>2</u>

What evidence do you have regarding location of OEW? None, but if there is ordnance, it would be subsurface.

B. Distance to nearest inhabited locations or structures likely to be at risk from OEW hazard (roads, parks, playgrounds, and buildings).

	VALUE
Less than 1250 feet	5
1250 feet to 0.5 miles	4
0.5 miles to 1.0 mile	3
1.0 mile to 2.0 miles	②
Over 2 miles	1
Distance (Select the single largest value)	<u>2</u>

What are the nearest inhabited structures? South, on Anna Maria Island.

C. Numbers of buildings within a 2 mile radius measured from the OEW hazard area, not the installation boundary.

	VALUE
26 and over	15
16 to 25	4
11 to 15	3
6 to 10	2
1 to 5	1
0	0

Number of Buildings (Select the single largest value)

Narrative Northern end of Anna Maria Island
is residential.

D. Types of Buildings (within a 2 mile radius)

	VALUE
Educational, Child Care, Residential, Hospitals, Hotels, Commercial, Shopping Centers	5
Industrial, Warehouse, etc.	4
Agricultural, Forestry, etc.	3
Detention, Correctional	2
No Buildings	0

Types of Buildings (Select the largest single value)

Describe types of buildings in the area. Residential area (houses,
etc.)

E. Accessibility to site refers to access by humans to ordnance and explosive wastes. Use the following guidance:

BARRIER	VALUE
No barrier or security system	5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing.	4
A barrier, (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site.	3
Security guard, but no barrier	2
Isolated site	①
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which continuously monitors and controls entry onto the facility; or An artificial or natural barrier (e.g., a fence combined with a cliff), which completely surrounds the facility; and a means to control entry, at all times, through the gates or other entrances to the facility (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the facility).	0
Accessibility (Select the single largest value)	<u>1</u>

Describe the site accessibility. Site is an uninhabited island.

F. Site Dynamics - This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion by beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.

	VALUE
Expected	⑤
None Anticipated	0
Site Dynamics (Select largest value)	<u>5</u>

Describe the site dynamics. The island is small and flat. Beach erosion is a possibility.

=====
Total Hazard Probability Value
(Sum of Largest Values for A through F--Maximum of 30)
Apply this value to Hazard Probability Table 2 to determine
Hazard Probability Level.

20

TABLE 2

HAZARD PROBABILITY

Description	Level	Value
FREQUENT	A	≥27
PROBABLE	B	≥21 <27
OCCASIONAL	C	≥15 <21
REMOTE	D	≥ 8 <15
IMPROBABLE	E	<8

* Apply Hazard Probability Level to Table 3.

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table 3. Enter with the results of the hazard probability and hazard severity values.

TABLE 3

Probability Level		FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
Severity Category:						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Imminent Hazard - Expedite INPR - Immediately call CEHND-ED-SY--commercial 205-955-4968 or DSN 645-4968.
- RAC 2 High priority on completion of INPR - Recommend further action by CEHND.
- RAC 3 Complete INPR - Recommend further action by CEHND.
- RAC 4 Complete INPR - Recommend further action by CEHND.
- RAC 5 Recommend no further action. Submit NOFA and RAC to CEHND.

Part IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

There is no evidence of subsurface explosive ordnance (bombs) on this island but this was used as a worst case assumption. It is uncertain what type of ordnance was dropped or fired at this island by aircraft.

Mr. Mauldin/np/16043
H:DOEWNOFA.GVM

DM
11/29

21 DEC 1993

CESAD-PD-R (200)

MEMORANDUM FOR

DM

COMMANDER, USACE, ATTN: CEMP-ZA, WASH DC 20314-1000
COMMANDER, HUNTSVILLE DIVISION, HUNTSVILLE, AL 35807-4301

SUBJECT: DERP-FUDS Inventory Project Report (INPR), Passage Key
Air to Ground Gunnery Range, Site No. I04FL040100

1. The "no further action" INPR for the subject site has been signed and is enclosed for your file.
2. The site was evaluated and determined to be eligible for the DERP-FUDS program, but no unsafe debris, hazardous/toxic waste, or containerized hazardous/toxic waste problems resulting from Department of Defense use were found.
3. Even though there exists the potential for an ordnance and explosive waste project (Risk Assessment Code score is 3), I am recommending no further action due to the unlikelihood that a serious safety hazard exists at the site. The site is a small, 36-acre island, accessible only by boat, and contains little or no vegetation. The island is managed by the USFWS as a National Wildlife Refuge for migratory birds and USFWS personnel interviewed were unaware of any ordnance ever being discovered at the site.
4. If CEHND concurs with our recommendation for no further action, the District will notify the current owners of the "no further action" determination.
5. Questions concerning the INPR should be directed to Gary Mauldin, CESAD-PD-R, at 404-331-6043.

Encl

ROGER F. YANKOUE
Brigadier General, USA
Commanding

RAW for
Barnett/PD-S

DM 12/1
Rushing/PM

Foreman/PD 1/93

Jones/DE 7/12/12

Smith/DME 8/20

Simms/DC 20 Dec

Yankoupe/DE 20/12

PD

DM

CF (w/encl):
CDR, JACKSONVILLE DISTRICT, ATTN: CESAJ-PD-EE

NOTE: RE, EN, PM, CO, OC, SO reviewed with no comments.

SEE REVERSE FOR MFR

✓
11/1

=====
**REVIEW/COMMENT FORM FROM SAD-EN-F (2680) B HORNSBY **

=====
**1 - EN-F DATE RECEIVED: 7 OCT DATE ISSUED: 7 OCT **

**2 - EN-*F* NAME: DATE: COMMENTS? **

**3 - EN-F NAME: BARB DATE: COMMENTS? **

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**

**NO. 362 SUBJECT: PASSAGE KEY TO GROUND GUNNERY RANGE **

* PD MAULDIN **

SUSPENSE DATE: 15 OCT 93

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**COMMENTS: _____ **

** _____ *OK 2/K* **

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COPIES FURNISHED TO:

EN-B EN-F EN-H EN-T CO

ROUTING SLIP SOUTH ATLANTIC DIVISION, U.S. ARMY CORPS OF ENGINEERS

from: CESAD-PD-R

date: 1 Oct 93

<input type="checkbox"/> EXECUTIVE OFFICE <input type="checkbox"/> Commander <input type="checkbox"/> Deputy Commander (Civil) <input type="checkbox"/> Deputy Commander (Military) <input type="checkbox"/> Executive Assistant <input type="checkbox"/> SPECIAL ASSISTANTS <input type="checkbox"/> Small & Disadvantaged Business Utilization <input type="checkbox"/> Value Engineering Officer <input type="checkbox"/> DIRECTORATE OF PROGRAMS & PROJECT MANAGEMENT <input type="checkbox"/> Assistant Director <input type="checkbox"/> Civil Programs Management Division <input type="checkbox"/> Civil Project Management Division <input type="checkbox"/> Military Project Management Division <input checked="" type="checkbox"/> Hazardous/Toxic Waste Restoration & Support for Others Division <input type="checkbox"/> AFFIRMATIVE ACTION OFFICE <input type="checkbox"/> Equal Employment Opportunity <input type="checkbox"/> DIRECTORATE OF INFORMATION MANAGEMENT <input type="checkbox"/> Info Rm'ts & Planning Division <input type="checkbox"/> Technical Library <input type="checkbox"/> Info Support Services Division <input type="checkbox"/> Comm Design & Ops Branch <input type="checkbox"/> COMSEC Center <input type="checkbox"/> Computer Ops Branch <input type="checkbox"/> Mail & Records Admin Branch <input type="checkbox"/> Customer Assistance Center <input type="checkbox"/> Reprographics Branch <input type="checkbox"/> Applications Support Branch <input type="checkbox"/> DIRECTORATE OF RESOURCE MANAGEMENT <input type="checkbox"/> Budget & Manpower Division <input type="checkbox"/> Finance & Accounting Division <input type="checkbox"/> Management Analysis Division <input type="checkbox"/> AUDIT OFFICE <input type="checkbox"/> Internal Review Branch <input type="checkbox"/> Resident IR Office, Charleston <input type="checkbox"/> Contract Audit Branch <input type="checkbox"/> Resident Audit Office, Jacksonville <input type="checkbox"/> Resident Audit Office, Mobile <input type="checkbox"/> Resident Audit Office, Wilmington	DE <input type="checkbox"/> DIRECTORATE OF PLANNING DD <input type="checkbox"/> Assistant Director DM <input type="checkbox"/> Economics & Social Analysis Division DX <input type="checkbox"/> Planning Assistance & Flood Plain Management Services Division <input type="checkbox"/> Environmental Resources Division <input type="checkbox"/> Plan Formulation & Program Management Division DB <input type="checkbox"/> OFFICE OF COUNSEL VE <input type="checkbox"/> DIRECTORATE OF ENGINEERING PP <input type="checkbox"/> Assistant Director PP-A <input checked="" type="checkbox"/> Cost & Value Engineering Division PP-P <input checked="" type="checkbox"/> Geotechnical & Materials Division (PA) <input type="checkbox"/> Division Lab PP-C <input type="checkbox"/> Geology Branch <input type="checkbox"/> Soils Mechanics Branch PP-M <input type="checkbox"/> Hydrology & Hydraulics Division PP-H <input type="checkbox"/> Hydraulics & Coastal Engineering Branch <input 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FOR: ACTION SIGNATURE REVIEW & COMMENT INFORMATION
 APPROVAL RECOMMENDATION DRAFT REPLY FILE

REMARKS: DERP FUDS (POSITIVE)
I04FLO40100
PASSAGE KEY AIR TO Ground Gunnery RANGE
We concur in
The FDE
10/27/93
DEW
S: 15 Oct 93

ROUTING SLIP SOUTH ATLANTIC DIVISION, U.S. ARMY CORPS OF ENGINEERS

from: CESAD-PD-R date: 1 Oct 93

<input type="checkbox"/> EXECUTIVE OFFICE <input type="checkbox"/> Commander <input type="checkbox"/> Deputy Commander (Civil) <input type="checkbox"/> Deputy Commander (Military) <input type="checkbox"/> Executive Assistant <input type="checkbox"/> SPECIAL ASSISTANTS <input type="checkbox"/> Small & Disadvantaged Business Utilization <input type="checkbox"/> Value Engineering Officer <input type="checkbox"/> DIRECTORATE OF PROGRAMS & PROJECT MANAGEMENT <input type="checkbox"/> Assistant Director <input type="checkbox"/> Civil Programs Management Division <input type="checkbox"/> Civil Project Management Division <input type="checkbox"/> Military Project Management Division <input checked="" type="checkbox"/> Hazardous/Toxic Waste Restoration & Support for Others Division <input type="checkbox"/> AFFIRMATIVE ACTION OFFICE <input type="checkbox"/> Equal Employment Opportunity <input type="checkbox"/> DIRECTORATE OF INFORMATION MANAGEMENT <input type="checkbox"/> Info Rqmts & Planning 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FOR: ACTION SIGNATURE REVIEW & COMMENT INFORMATION
 APPROVAL RECOMMENDATION DRAFT REPLY FILE

REMARKS: DERP FUDS (POSITIVE)
I04FLO40100
PASSAGE KEY AIR to Ground Gunnery RANGE
No Comment
Jellman SD DEW
S: 15 Oct 93

ROUTING SLIP SOUTH ATLANTIC DIVISION, U.S. ARMY CORPS OF ENGINEERS

from: CESAD-PD-R

date: 1 Oct 93

<input type="checkbox"/> EXECUTIVE OFFICE <input type="checkbox"/> Commander <input type="checkbox"/> Deputy Commander (Civil) <input type="checkbox"/> Deputy Commander (Military) <input type="checkbox"/> Executive Assistant <input type="checkbox"/> SPECIAL ASSISTANTS <input type="checkbox"/> Small & Disadvantaged Business Utilization <input type="checkbox"/> Value Engineering Officer <input type="checkbox"/> DIRECTORATE OF PROGRAMS & PROJECT MANAGEMENT <input type="checkbox"/> Assistant Director <input type="checkbox"/> Civil Programs Management Division <input type="checkbox"/> Civil Project Management Division <input type="checkbox"/> Military Project Management Division <input checked="" type="checkbox"/> Hazardous/Toxic Waste Restoration & Support for Others Division <input type="checkbox"/> AFFIRMATIVE ACTION OFFICE <input type="checkbox"/> Equal Employment Opportunity <input type="checkbox"/> DIRECTORATE OF INFORMATION MANAGEMENT <input type="checkbox"/> Info Rm'ts & Planning 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FOR: ACTION SIGNATURE REVIEW & COMMENT INFORMATION
 APPROVAL RECOMMENDATION DRAFT REPLY FILE

REMARKS: DERP FUDS (POSITIVE)
104FLO40100
PASSAGE KEY AIR to Ground Gunnery RANGE

DEW

5:15 OCT 93

GARY MAULDIN

ROUTING AND TRANSMITTAL SLIP

Date

J.S. ARMY CORPS OF ENGINEERS

TO: (Name, office symbol, room number, building, Agency/Post)

4 Oct 93

date: 1 Oct 93

	Initials	Date
1. Mauldin PD-R		
2.		
3.		
4.		
5.		

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

REMARKS

No comments
 1. Perry Bombing Gunnery Range
 2. Passage Key Air to Ground Gunnery Range

- PD DIRECTORATE OF REAL ESTATE
- PD-S Acquisition Division
- PD-E Appraisal Division
- Management & Disposal Division
- PD-A Planning & Control Division
- PD-R
- PD-P DIRECTORATE OF LOGISTICS MANAGEMENT
- OC Assistant Director
- Protocol and Conferences
- Transportation/Travel
- NG EN Supply Room
- EN-A
- EN-B DIRECTORATE OF HUMAN RESOURCES
- EN-F Assistant Director
- EN-FL Management Employee Relations/Regulatory Services
- EN-FG Training & Development
- EN-FS Position Mgt & Classification
- EN-H Recruitment & Placement
- EN-HH
- EN-HW Military Personnel
- EN-T Jacksonville Operating Division
- EN-TA Savannah Operating Division
- EN-TE Wilmington Operating Division
- EN-TM
- EN-TS DIRECTORATE OF CONTRACTING
- RUCTION- OFFICE OF SECURITY AND LAW ENFORCEMENT
- CO SAFETY & OCCUPATIONAL HEALTH OFFICE
- CO-A
- CO-B AIR FORCE REGIONAL CIVIL ENGINEERS EASTERN REGION AFRC
- CO-CD
- CO-CM
- CO-CO
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- CO-O
- CO-OR HEALTH FACILITIES OFFICE HFC
- CO-ON
- CO-H MANAGEMENT ENGINEERING BRANCH CERN
- CO-R
- CO-RP
- CO-RN
- CO-E
- CO-ED
- CO-EE
- CO-EO

4 Oct

DO NOT use this form as a RECORD of approvals, clearances, and similar actions, concurrences, disposals.

FROM: (Name, org. symbol, Agency/Post)

Room No.—Bldg.

Phone No.

Bob Lloyd

OPTIONAL FORM 41 (Rev. 7-76)
 Prescribed by GSA
 FPMR (41 CFR) 101-11.206

- Resident Audit Office
- Resident Audit Office, Wilmington

FOR: ACTION SIGNATURE REVIEW & COMMENT INFORMATION
 APPROVAL RECOMMENDATION DRAFT REPLY FILE

REMARKS: DERP FUDS (POSITIVE)
 # IO4FLO40100
 PASSAGE KEY AIR to Ground Gunnery RANGE
 OELW
 5:15 Oct 93

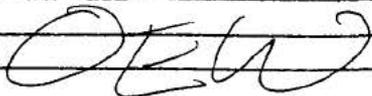
ROUTING SLIP SOUTH ATLANTIC DIVISION, U.S. ARMY CORPS OF ENGINEERS

from: CESAD-PD-R

date: 1 Oct 93

<input type="checkbox"/> EXECUTIVE OFFICE <input type="checkbox"/> Commander <input type="checkbox"/> Deputy Commander (Civil) <input type="checkbox"/> Deputy Commander (Military) <input type="checkbox"/> Executive Assistant <input type="checkbox"/> SPECIAL ASSISTANTS <input type="checkbox"/> Small & Disadvantaged Business Utilization <input type="checkbox"/> Value Engineering Officer <input type="checkbox"/> DIRECTORATE OF PROGRAMS & PROJECT MANAGEMENT <input type="checkbox"/> Assistant Director <input type="checkbox"/> Civil Programs Management Division <input type="checkbox"/> Civil Project Management Division <input type="checkbox"/> Military Project Management Division <input checked="" type="checkbox"/> Hazardous/Toxic Waste Restoration & Support for Others Division <input type="checkbox"/> AFFIRMATIVE ACTION OFFICE <input type="checkbox"/> Equal Employment Opportunity <input type="checkbox"/> DIRECTORATE OF INFORMATION MANAGEMENT <input type="checkbox"/> Info Rqmts & Planning 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FOR: ACTION SIGNATURE REVIEW & COMMENT INFORMATION
 APPROVAL RECOMMENDATION DRAFT REPLY FILE

REMARKS: DERP FUDS (POSITIVE)
104FLO40100
PASSAGE KEY AIR to Ground Gunnery RANGE

S: 15 OCT 93

CESAJ-RE-M (200-1c)

28 May 1993

DH
REB
R

MEMORANDUM FOR CHIEF, PLANNING DIVISION

SUBJECT: Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS), Final Draft of Findings on Fact and Determination of Eligibility (FDE)

1. Enclosed for your use is a final draft of the FDE for Passage Key Air to Ground Gunnery Range, Manatee County, Florida, Site No. I04FL040100.
2. Point of contact is Marilyn Miller, extension 3070.

Encl

DONALD L. BURCHETT
Acting Chief, Real Estate Division

CF (w/encl):
~~CESAJ-DP-I~~

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FORMERLY USED DEFENSE SITES
FINDINGS AND DETERMINATION OF ELIGIBILITY

Passage Key Air to Ground Gunnery Range, FL

Site No. I04FL040100

FINDINGS OF FACT

1. On 18 June 1943, the War Department (WD) requested a temporary use permit from the Department of the Interior (DOI), to use a 36.37 acre National Wildlife Refuge Site for a bombing range assigned to the Sarasota Army Air Field. DOI granted the temporary use permit to the WD on 31 August 1943. The site was located in Tampa Bay, about ten miles northwest of the city of Bradenton in Manatee County, Florida, and named Passage Key Air to Ground Gunnery Range.
2. The Third Army Air Force Fighter Unit utilized the bombing range for training purposes during World War II. No information could be located pertaining to any improvements being constructed by the WD or the Army Air Forces. Therefore, it is unknown whether or not there were any improvements constructed on the site.
3. The WD determined was no longer a military necessity for the use of the site, the permit was relinquished and the 36.37 acres were returned to the DOI on 22 March 1946. Currently, the site is being used by the DOI as a National Wildlife Refuge for migratory birds, operated by the United States Fish and Wildlife Service.

DETERMINATION

Based on the foregoing findings of fact, the Passage Key Air to Ground Gunnery Range, Florida, has been determined to be formerly used by the Department of Defense. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 USC 2701, et seq.

DATE

ROGER F. YANKOUPE
Brigadier General, USA
Commanding