



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
**NEW YORK DISTRICT CORPS OF ENGINEERS**  
**JACOB K. JAVITS FEDERAL BUILDING**  
**NEW YORK, N.Y. 10278-0090**

CENAN-EN-Tq (200-1a)

23 April 1991

**MEMORANDUM FOR COMMANDER, NORTH ATLANTIC DIVISION**  
**ATTN: CENAD-PP-PM**

**SUBJECT: DERP-FUDS Inventory Project Report (INPR) For Site No.**  
**C02NY003204 Floyd Bennett Field, Jamaica Bay, New York**

1. This INPR reports on the DERP-FUDS preliminary assessment of the Floyd Bennett Field. A site visit was conducted on 20 and 21 November 1990. The site survey summary sheet, site map and survey item list are in Encl 1.

2. We determined that the site was formerly used by the Navy. The recommended findings and determination of eligibility is in Encl 2.

3. We also determined that there is hazardous waste at the site eligible for cleanup under the DERP-FUDS program. Categories of hazardous waste are CON/HTW and HTW. Project summary sheets and DD Form 1391 are in Encl 3, 4 and 5 for the proposed CON/HTW and HTW projects.

5. I recommend that you:

a. Approve and sign the Findings and Determination of Eligibility.

b. Forward a copy of this INPR to MRD for a determination of the need for further investigation at the POL Station, Shed and Pad building and Building # 30.

c. Forward a copy of this INPR to HND for the PA file.

200.1e  
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**SUBJECT: DERP-FUDS Inventory Project Report (INPR) For Site No.  
C02NY003204 Floyd Bennett Field, Jamaica Bay, New York**

d. Forward a copy of this INPR to CEMP requesting approval and funds for this District to accomplish the CON/HTW project. We can sample the contents of the twenty-eight 55 gal drums by contract and combine their removal with the removal of the forty nine underground storage tanks, four above ground tanks, six transformers and two 1 gal containers to achieve a cost savings over five separate projects. The DD Form 1391 includes sampling and testing in the estimate.

5 Encls.



R. M. DANIELSON  
COL, EN  
Commanding

**SITE SURVEY SUMMARY SHEET  
FOR  
DERP-FUDS SITE No. C02NY003204  
FLOYD BENNETT FIELD, JAMAICA BAY, NEW YORK  
28 NOVEMBER 1990**

**SITE NAME:** Floyd Bennett Field, Gateway National Recreation Area, formerly Naval Air Station.

**LOCATION:** Floyd Bennett Field, Jamaica Bay, New York; see site map attached at Encl 1.

**SITE HISTORY:** Although the Navy first used this site in 1931, officially Floyd Bennett Field totalling 1522 acres was acquired in two parcels, on 2 February 1942 and 9 February 1942, by property condemnation. The property was used as a Naval Air Station until mid 1973. On 16 January 1973, 52 acres were transferred to the Coast Guard and on 1 October 1974, 1,440 acres were transferred to the National Park Service (NPS). Thirty acres are currently maintained by the U.S. Navy.

**SITE VISIT:** A site visit was conducted on 20 and 21 November 1990 by Abraham Portalatin and Constancio J. Labeste of CENAN-EN-Tq. They spoke with the Residence Engineer, Mr. Kent Hanaki. Names of all persons contacted are in the project file.

**CATEGORY OF HAZARD:** CON/HTW and HTW.

**PROJECT DESCRIPTION:** There are two potential projects at this site.

a. **CON/HTW:** There are forty-nine UST's and four above-ground storage tanks not in use, twenty-eight 55 gal drums, two 1 gal containers labeled triscresyl phosphate and six electric transformers. In Building # 126 the possibility of floor contamination exists due to leakage from a 55 gal drum of unknown contents. Since the floor is concrete and the walls concrete block, the contamination is assumed to be contained within this small structure. The project includes the removal of contaminated concrete and concrete-block. Therefore, the demolition of this structure will be incidental to the removal of the concrete slab and concrete block.

b. **HTW:** Three potential HTW project sites exist, and are indicated as follows:

1. **Building # 30:** The possibility of soil contamination exists due to leakage from a 55 gal drum located adjacent to this building. The contents are unknown. It is likely that additional drums were stored here. Therefore, it is quite possible that the soil contamination may cover a large area.

Encl 1

may cover a large area.

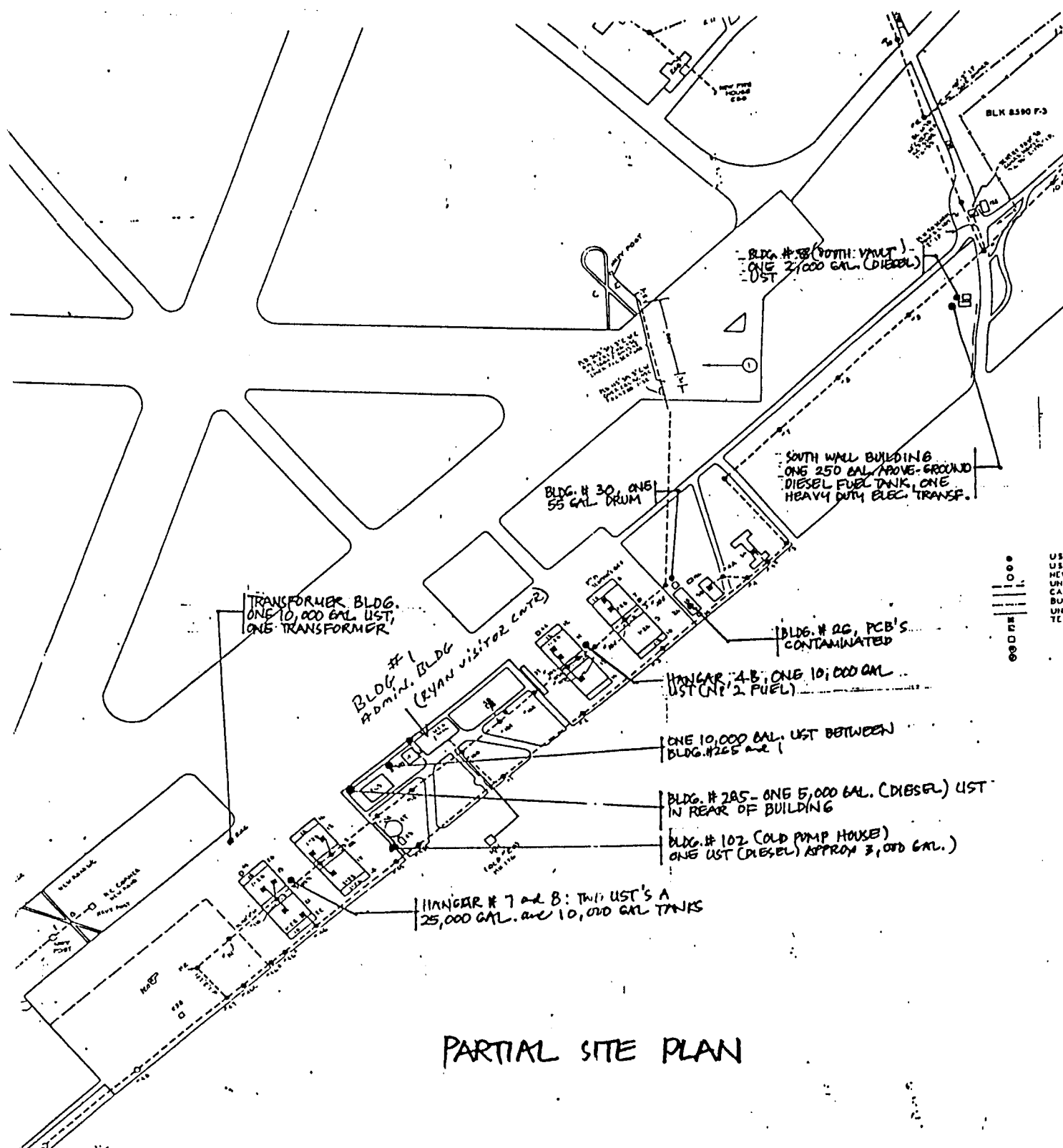
2. POL Station Area: The possibility of soil contamination exists due to leakage from some of the twenty six 55 gal drums. The nature and extent of the soil contamination are unknown.

3. Shed and Pad Building: The possibility of chemical contamination in the interior and outer perimeter of this building exists.

No attempt was made by the site investigation team to sample any of the above listed items.

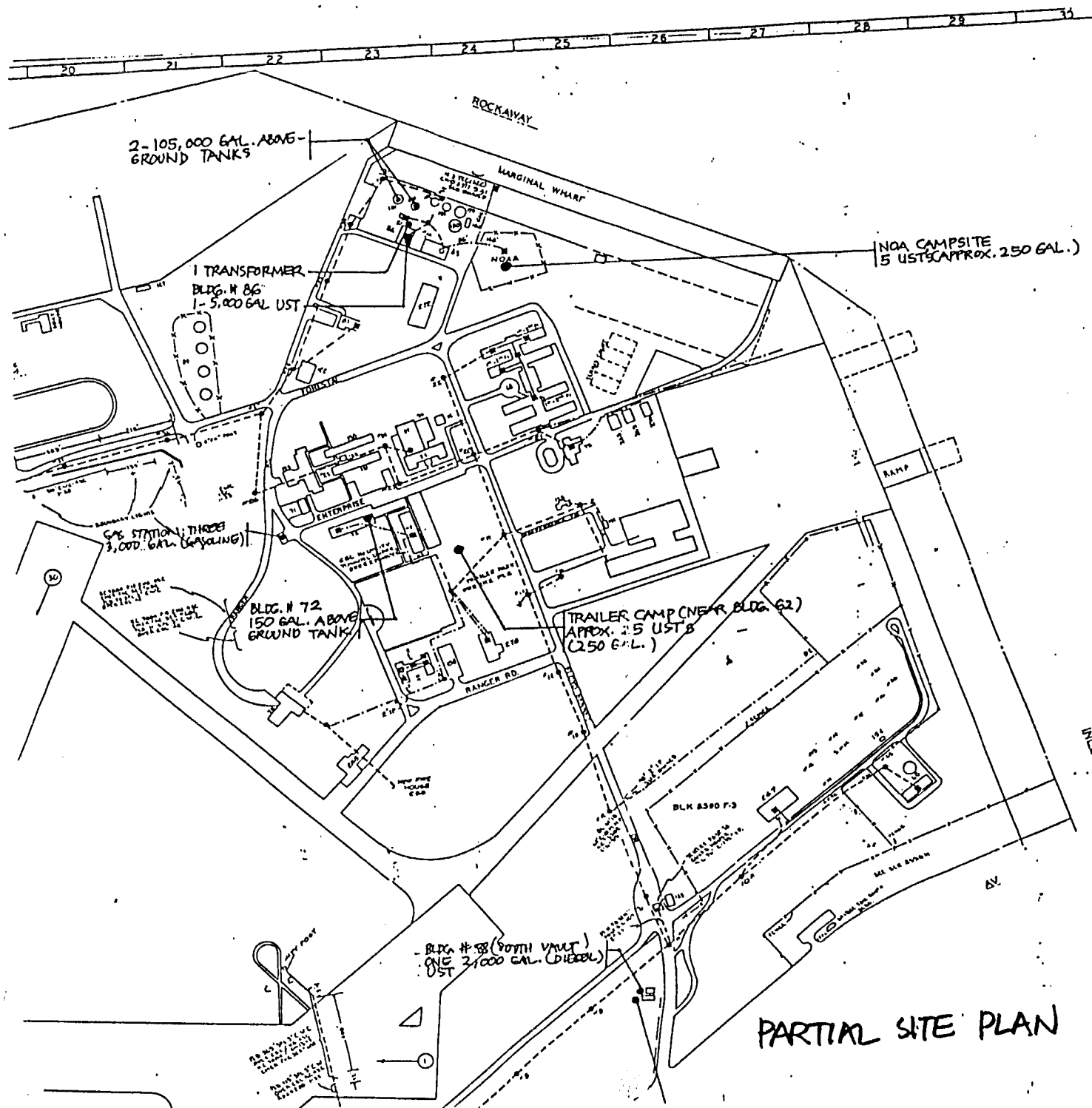
**AVAILABLE STUDIES AND REPORTS:** None identified

PA POC: MR. Abraham Portalatin, (212) 264-6070/71 is the district POC.



**NORTH**

PARTIAL SITE PLAN



NORTH

PARTIAL SITE PLAN

ENCL 1



FLOYD BENNETT FIELD ITEM LIST

1. POL STATION AREA:

- a. Two underground storage tanks  
two pumps labeled 115/145 AV GAS
- b. 26 drums (55 gal ) military drums some were labeled  
as follows:

Mil-L-9000 GAM3	LUBE OIL
GRADE 9250	LOW 30
IMPERIAL OIL CO	MIL-L-46152 ASA NO.1
	BORNE CHEMICAL

2. BUILDING # 126 (storage building):

- a. One 55 gal drum, and two 1 gal containers labeled  
tricresyl phosphate.
- b. Possible floor contamination due to drum leakage.

3. BUILDING # 26:

- a. Two transformers (Signs posted throughout building  
indicating PCB's and asbestos contamination).

4. TRAILER CAMP (near building 62):

- a. Approximately 25 UST's (250 gal each)

5. NOA CAMPSITE:

- a. Five 250 gal UST's

6. SOUTH WALL BUILDING:

- a. One 250 gal above ground diesel fuel tank
- b. One heavy duty electric transformer

7. BUILDING # 265:

- a. One 5,000 gal (diesel) UST in rear of building
- b. One 10,000 gal UST between building 265 & 1.

8. HANGER # 4B:

- a. One 10,000 gal UST (No. 2 fuel).

9. Hangers #'s 7 and 8 (also known as 2B boiler building,  
asbestos contaminated).

- a. Two UST's (approximately 25,000 gal and 10,000 gal tanks).
- b. Asbestos contamination.



FLOYD BENNETT FIELD

10. BUILDING # 273:

- a. One 5,000 gal UST.
- b. One transformer (Niagara transformer Corp, ASKAREL N-3).

11. SHED and PAD (N.W. of Hanger B):

- a. Possible HTW, this site was used to store chemicals.

12. BUILDING # 96:

- a. Three 25,000 gal UST's
- b. Asbestos contaminated floors.

13. GAS STATION (N.W. of pump house).

- a. One underground storage tank (approx. 3,000 gal).

14. BUILDING # 72:

- a. The sump pump room contains one 150 gal above ground tank, This room is currently flooded.
- b. Asbestos contamination.

15. BUILDING # 30:

- a. One 55 gal drum on side of building.
- b. Soil may be contaminated due to drum leakage.

16. BUILDING # 86:

- a. One transformer in rear of building.
- b. Airborne asbestos pile inside building.
- c. Two 105,000 gal above ground tanks (No. 4 fuel) located in rear of building # 86.
- d. One 5,000 gal UST.

17. TRANSFORMER BUILDING:

- a. This building was formerly used as a lighting vault and is located between hangers # 7 & 8 and building # 54. One 10,000 gal UST may be buried in this site.
- b. One transformer located inside building.

18. BUILDING # 102 (old pump house):

- a. One UST (diesel) approx. 3,000 gal.

FLOYD BENNETT FIELD

19. BUILDING # 88 (south vault):  
a. One 2,000 gal (diesel) UST.
20. GAS STATION FBF:  
a. One 3,000 gal UST (gasoline).
21. GAS STATION FBF:  
a. One 3,000 gal UST (gasoline).
22. GAS STATION FBF:  
a. One 3,000 gal UST (gasoline).

TOTAL	
UNDERGROUND STORAGE TANKS	49
ABOVE GROUND TANKS	4
DRUMS (55 GAL)	28
TRANSFORMERS (PCB'S)	6
OTHER (POTASSIUM PHOSPHATE)	2

**DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FORMERLY USED DEFENSE SITES PROGRAM  
FINDING AND DETERMINATION OF ELIGIBILITY  
FLOYD BENNETT FIELD, JAMAICA BAY, NEW YORK  
Site No. C02NY003204**

**FINDING OF FACT**

1. The subject site consists of approximately 1,522 acres and was first used by the U.S. Navy in 1931. Officially, Floyd Bennett Field was acquired by the Department of Defense in two parcels, 2 February 1942 and 9 February 1942, by property condemnation.

2. The property was used as a Naval Air Station until 1973. On 16 January 1973, 52 acres were transferred to the Coast Guard. On 1 October 1974, 1,440 acres were transferred to the Department of the Interior, National Park Service (NPS). The remaining property, 30 acres, is currently maintained by the U.S. Navy. All the buildings, underground storage tanks, above-ground tanks, drums, containers and electric transformers inspected for the DERP-FUDS project are located on the National Park Service property. Therefore, these structures qualify for containerized hazardous waste and hazardous toxic waste removal project. Evidence of ordnance was not found on the site.

**DETERMINATION**

Base on the foregoing findings of facts, the site has been determined to be formerly used by DOD. It is therefore eligible for the Defense Environmental Restoration Program-Formerly Used Defense Site established under 10 USC 2701 et seq.

date:

**GERALD C, BROWN  
BRIGADIER GENERAL, USA  
Commanding**

Encl 2

**PROJECT SUMMARY SHEET**  
**FOR**  
**DERP-FUDS CON/HTW PROJECT No. C02NY003204 FLOYD BENNETT**  
**FIELD, JAMAICA BAY, NEW YORK**  
**28 November 1990**

**PROJECT DESCRIPTION.** There are forty nine UST's and four above ground tanks of various sizes, two pumping stations, six transformers, twenty eight 55 gal drums and two 1 gal containers of tricresyl phosphate at Floyd Bennett Field. All the UST's, above-ground tanks, transformers and both pumping stations are currently not in use. We were unable to inspect the interior of these tanks. No evidence of leakage from the above-ground tanks or UST's was observed; however the possibility of soil and groundwater contamination does exist. Twenty-six of the twenty-eight drums are located in the POL station area and have been there since the National Park Service (NPS) took control of the area. The drums are full and their contents are unknown. Several of the drums are labeled as follows: MIL-L9000 GAM3 grade 9250 and MIL-L-466152 ASA # 1. All the drums are badly rusted and some have leaked into the ground.

**PROJECT ELIGIBILITY.** Records indicates that the forty-nine UST's and the four above ground tanks were built by the Navy. The military labels on the 55 gal drums and two 1 gal containers clearly indicate that they originated from the military. Therefore, it's reasonable to assume that they were left by the Navy.

**PROPOSED PROJECT.** The forty-nine UST's and four above-ground tanks of various sizes, twenty-eight 55 gallon drums, two 1 gal container labeled tricresyl phosphate and six electric transformers meet eligibility criteria and policy consideration and are proposed for removal and disposal. In addition, the demolition of the following two structures will be required: Building No. 126 which is incidental to the removal of the contaminated concrete slab and the POL Station structure which is incidental to the removal the underground tanks should be accomplished.

**DD FORM 1391:** Attached.

**DISTRICT POC:** Mr. Abraham Portalatin, (212) 264-6070/71

**PROJECT SUMMARY SHEET**  
**FOR**  
**DERP-FUDS HTW PROJECT No. CO2NY003205**  
**FLOYD BENNETT FIELD**  
**SITE No. CO2NY003204**  
**NOVEMBER 18, 1989**

**PROJECT DESCRIPTION:** Adjacent to building # 30 the possibility of soil contamination has been discovered due to the leakage of a 55 gal drum. The content of this drum is unknown.

In the POL Station Area the possibility of soil contamination exists. This is due to the leakage from some of the 55 gal drums. The content of the soil contamination is unknown.

The possibility of chemical contamination to the interior and exterior of the Shed and Pad building exists. This building was used as a chemical storage area. No record of the type of chemicals stored in this area are available.

**PROJECT AVAILABILITY:** The contamination in the above mentioned areas probably resulted from DOD use.


**POLICY CONSIDERATION:** The contamination described above is eligible for DERP-FUDS if it poses a hazard. There is no policy which prohibits the proposal of this project.

**PROPOSE ACTIVITIES:** The INPR should be forwarded to MRD for determination of further action.

**EPA FORM 2070-12:** Attached

<b>POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT</b> <b>PART 1 - SITE INFORMATION AND ASSESSMENT</b>				<b>I. IDENTIFICATION</b> 01 STATE   02 SITE NUMBER	
<b>II. SITE NAME AND LOCATION</b>					
01 SITE NAME (Legal, common, or descriptive name of site) FLOYD BENNETT FIELD			02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER		
03 CITY BROOKLYN (JAMAICA BAY)		04 STATE N.Y.	05 ZIP CODE 11234	06 COUNTY KING	07 COUNTY CODE   08 CONG DIST
09 COORDINATES LATITUDE		LONGITUDE			
10 DIRECTIONS TO SITE (Starting from nearest public road) BELT PARKWAY TO EXIT 11, CONTINUE APPROX. 1 MILE AND MAKE LEFT AT THE NATIONAL PARKS SERVICE PARK ENTRANCE.					
<b>III. RESPONSIBLE PARTIES</b>					
01 OWNER (If known) U.S. DEPARTMENT OF THE INTERIOR			02 STREET (Business, mailing, residential) FLOYD BENNETT FIELD		
03 CITY BROOKLYN (JAMAICA BAY)		04 STATE NY	05 ZIP CODE 11234	06 TELEPHONE NUMBER (718) 338-3338	
07 OPERATOR (If known and different from owner)			08 STREET (Business, mailing, residential)		
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ( )	
13 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input checked="" type="checkbox"/> B. FEDERAL <u>DEPT. OF THE INTERIOR</u> <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: ____/____/____ <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 103(c)) DATE RECEIVED: ____/____/____ <input type="checkbox"/> C. NONE					
<b>IV. CHARACTERIZATION OF POTENTIAL HAZARD</b>					
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES    DATE <u>11/21/90</u> <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input checked="" type="checkbox"/> F. OTHER: <u>US ARMY CORPS OF ENGINEERS</u> CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR _____ ENDING YEAR _____ <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION					
<b>V. PRIORITY ASSESSMENT</b>					
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Writing Assessment and Part 3 - Description of Hazardous Conditions and Impacts) <input type="checkbox"/> A. HIGH <input type="checkbox"/> B. MEDIUM <input type="checkbox"/> C. LOW <input type="checkbox"/> D. NONE					
<b>VI. INFORMATION AVAILABLE FROM</b>					
01 CONTACT		02 OF (Agency or Organization)		03 TELEPHONE NUMBER ( )	
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER ( )	08 DATE ____/____/____ MONTH DAY YEAR



 <b>POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT</b>		<b>I. IDENTIFICATION</b> 01 STATE 02 SITE NUMBER	
<b>II. SITE NAME AND LOCATION</b>			
01 SITE NAME (Legal, common, or descriptive name of site) FLOYD BENNETT FIELD		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER	
03 CITY BROOKLYN (JAMAICA BAY)	04 STATE N.Y.	05 ZIP CODE 11234	06 COUNTY KING
07 COUNTY CODE	08 CONG. DIST.		
09 COORDINATES LATITUDE		LONGITUDE	
10 DIRECTIONS TO SITE (Starting from nearest public road) BELT PARKWAY TO EXIT 11, CONTINUE APPROX. 1 MILE AND MAKE LEFT AT THE NATIONAL PARKS SERVICE PARK ENTRANCE.			
<b>III. RESPONSIBLE PARTIES</b>			
01 OWNER (If known) U.S. DEPARTMENT OF THE INTERIOR		02 STREET (Business, home, residential) FLOYD BENNETT FIELD	
03 CITY BROOKLYN (JAMAICA BAY)	04 STATE NY	05 ZIP CODE 11234	06 TELEPHONE NUMBER (718) 338-3338
07 OPERATOR (If known and different from owner)		08 STREET (Business, home, residential)	
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ( )
13 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input checked="" type="checkbox"/> B. FEDERAL <u>DEPT. OF THE INTERIOR</u> <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ <input type="checkbox"/> G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: ____/____/____ <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 103(d)) DATE RECEIVED: ____/____/____ <input type="checkbox"/> C. NONE			
<b>IV. CHARACTERIZATION OF POTENTIAL HAZARD</b>			
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <u>11, 21, 90</u> <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input checked="" type="checkbox"/> F. OTHER: <u>US ARMY CORPS OF ENGINEERS</u> CONTRACTOR NAME(S): _____	
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR _____ ENDING YEAR _____ <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION			
<b>V. PRIORITY ASSESSMENT</b>			
01 PRIORITY FOR INSPECTION (Check one - If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Remedial Action) <input type="checkbox"/> A. HIGH <input type="checkbox"/> B. MEDIUM <input type="checkbox"/> C. LOW <input type="checkbox"/> D. NONE <small>(Inspection required immediately) (Inspection required) (Inspection or time sensitive action) (No further action needed; complete current disposition form)</small>			
<b>VI. INFORMATION AVAILABLE FROM</b>			
01 CONTACT		02 OF (Agency, Organization)	
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION
		07 TELEPHONE NUMBER ( )	08 DATE ____/____/____ MONTH DAY YEAR



**PROJECT SUMMARY SHEET**  
**FOR**  
**DERP-FUDS HTW PROJECT No. CO2NY003205**  
**FLOYD BENNETT FIELD**  
**SITE No. CO2NY003204**  
**NOVEMBER 18, 1989**

**PROJECT DESCRIPTION:** Adjacent to building # 30 the possibility of soil contamination has been discovered due to the leakage of a 55 gal drum. The content of this drum is unknown.

In the POL Station Area the possibility of soil contamination exists. This is due to the leakage from some of the 55 gal drums. The content of the soil contamination is unknown.

The possibility of chemical contamination to the interior and exterior of the Shed and Pad building exists. This building was used as a chemical storage area. No record of the type of chemicals stored in this area are available.

**PROJECT AVAILABILITY:** The contamination in the above mentioned areas probably resulted from DOD use.

**POLICY CONSIDERATION:** The contamination described above is eligible for DERP-FUDS if it poses a hazard. There is no policy which prohibits the proposal of this project.

**PROPOSE ACTIVITIES:** The INPR should be forwarded to MRD for determination of further action.

**EPA FORM 2070-12:** Attached

**PROJECT SUMMARY SHEET**  
**FOR**  
**DERP-FUDS CON/HTW PROJECT No. C02NY003204 FLOYD BENNETT**  
**FIELD, JAMAICA BAY, NEW YORK**  
**28 November 1990**

**PROJECT DESCRIPTION.** There are forty nine UST's and four above ground tanks of various sizes, two pumping stations, six transformers, twenty eight 55 gal drums and two 1 gal containers of tricresyl phosphate at Floyd Bennett Field. All the UST's, above-ground tanks, transformers and both pumping stations are currently not in use. We were unable to inspect the interior of these tanks. No evidence of leakage from the above-ground tanks or UST's was observed; however the possibility of soil and groundwater contamination does exist. Twenty-six of the twenty-eight drums are located in the POL station area and have been there since the National Park Service (NPS) took control of the area. The drums are full and their contents are unknown. Several of the drums are labeled as follows: MIL-L9000 GAM3 grade 9250 and MIL-L-466152 ASA # 1. All the drums are badly rusted and some have leaked into the ground.

**PROJECT ELIGIBILITY.** Records indicates that the forty-nine UST's and the four above ground tanks were built by the Navy. The military labels on the 55 gal drums and two 1 gal containers clearly indicate that they originated from the military. Therefore, it's reasonable to assume that they were left by the Navy.

**PROPOSED PROJECT.** The forty-nine UST's and four above-ground tanks of various sizes, twenty-eight 55 gallon drums, two 1 gal container labeled tricresyl phosphate and six electric transformers meet eligibility criteria and policy consideration and are proposed for removal and disposal. In addition, the demolition of the following two structures will be required: Building No. 126 which is incidental to the removal of the contaminated concrete slab and the POL Station structure which is incidental to the removal the underground tanks should be accomplished.

**DD FORM 1391:** Attached.

**DISTRICT POC:** Mr. Abraham Portalatin, (212) 264-6070/71

**DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FORMERLY USED DEFENSE SITES PROGRAM  
FINDING AND DETERMINATION OF ELIGIBILITY  
FLOYD BENNETT FIELD, JAMAICA BAY, NEW YORK  
Site No. C02NY003204**

**FINDING OF FACT**

1. The subject site consists of approximately 1,522 acres and was first used by the U.S. Navy in 1931. Officially, Floyd Bennett Field was acquired by the Department of Defense in two parcels, 2 February 1942 and 9 February 1942, by property condemnation.

2. The property was used as a Naval Air Station until 1973. On 16 January 1973, 52 acres were transferred to the Coast Guard. On 1 October 1974, 1,440 acres were transferred to the Department of the Interior, National Park Service (NPS). The remaining property, 30 acres, is currently maintained by the U.S. Navy. All the buildings, underground storage tanks, above-ground tanks, drums, containers and electric transformers inspected for the DERP-FUDS project are located on the National Park Service property. Therefore, these structures qualify for containerized hazardous waste and hazardous toxic waste removal project. Evidence of ordnance was not found on the site.

**DETERMINATION**

Base on the foregoing findings of facts, the site has been determined to be formerly used by DOD. It is therefore eligible for the Defense Environmental Restoration Program-Formerly Used Defense Site established under 10 USC 2701 et seq.

date:

**GERALD C, BROWN  
BRIGADIER GENERAL, USA  
Commanding**

Encl 2

FLOYD BENNETT FIELD

19. BUILDING # 88 (south vault):

a. One 2,000 gal (diesel) UST.

20. GAS STATION FBF:

a. One 3,000 gal UST (gasoline).

21. GAS STATION FBF:

a. One 3,000 gal UST (gasoline).

22. GAS STATION FBF:

a. One 3,000 gal UST (gasoline).

TOTAL	
UNDERGROUND STORAGE TANKS	49
ABOVE GROUND TANKS	4
DRUMS (55 GAL)	28
TRANSFORMERS (PCB'S)	6
OTHER (POTASSIUM PHOSPHATE)	2

FLOYD BENNETT FIELD

10. BUILDING # 273:

- a. One 5,000 gal UST.
- b. One transformer (Niagara transformer Corp, ASKAREL N-3).

11. SHED and PAD (N.W. of Hanger B):

- a. Possible HTW, this site was used to store chemicals.

12. BUILDING # 96:

- a. Three 25,000 gal UST's
- b. Asbestos contaminated floors.

13. GAS STATION (N.W. of pump house).

- a. One underground storage tank (approx. 3,000 gal).

14. BUILDING # 72:

- a. The sump pump room contains one 150 gal above ground tank, This room is currently flooded.
- b. Asbestos contamination.

15. BUILDING # 30:

- a. One 55 gal drum on side of building.
- b. Soil may be contaminated due to drum leakage.

16. BUILDING # 86:

- a. One transformer in rear of building.
- b. Airborne asbestos pile inside building.
- c. Two 105,000 gal above ground tanks (No. 4 fuel) located in rear of building # 86.
- d. One 5,000 gal UST.

17. TRANSFORMER BUILDING:

- a. This building was formerly used as a lighting vault and is located between hangers # 7 & 8 and building # 54. One 10,000 gal UST may be buried in this site.
- b. One transformer located inside building.

18. BUILDING # 102 (old pump house):

- a. One UST (diesel) approx. 3,000 gal.

## FLOYD BENNETT FIELD ITEM LIST

### 1. POL STATION AREA:

- a. Two underground storage tanks  
two pumps labeled 115/145 AV GAS
- b. 26 drums (55 gal ) military drums some were labeled  
as follows:

Mil-L-9000 GAM3	LUBE OIL
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### 2. BUILDING # 126 (storage building):

- a. One 55 gal drum, and two 1 gal containers labeled  
tricresyl phosphate.
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### 3. BUILDING # 26:

- a. Two transformers (Signs posted throughout building  
indicating PCB's and asbestos contamination).

### 4. TRAILER CAMP (near building 62):

- a. Approximately 25 UST's (250 gal each)

### 5. NOA CAMPSITE:

- a. Five 250 gal UST's

### 6. SOUTH WALL BUILDING:

- a. One 250 gal above ground diesel fuel tank
- b. One heavy duty electric transformer

### 7. BUILDING # 265:

- a. One 5,000 gal (diesel) UST in rear of building
- b. One 10,000 gal UST between building 265 & 1.

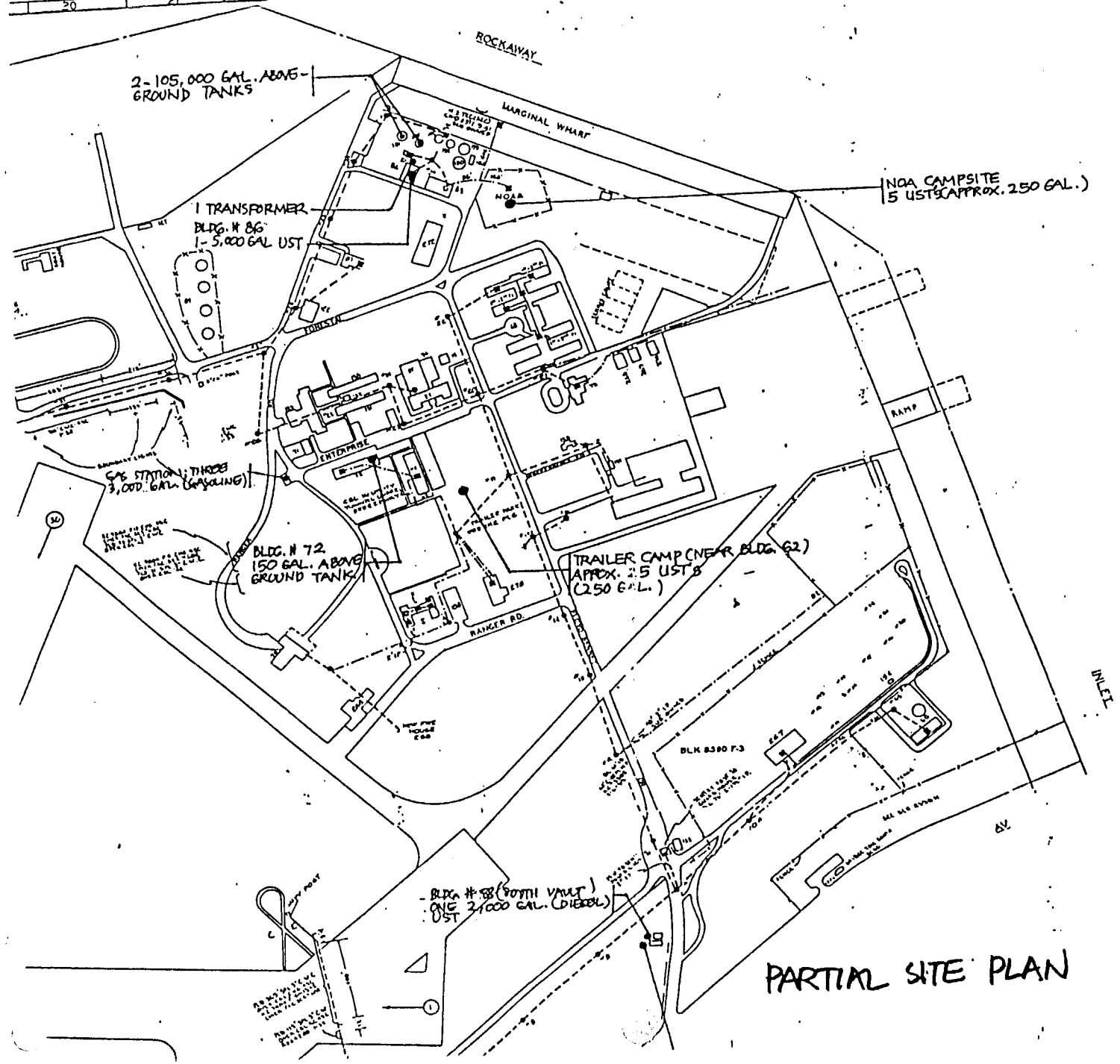
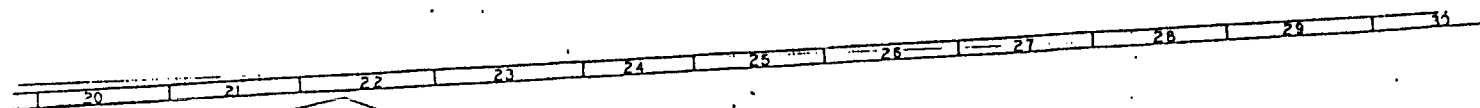
### 8. HANGER # 4B:

- a. One 10,000 gal UST (No. 2 fuel).

### 9. Hangers #'s 7 and 8 (also known as 2B boiler building, asbestos contaminated).

- a. Two UST's (approximately 25,000 gal and 10,000 gal tanks).
- b. Asbestos contamination.



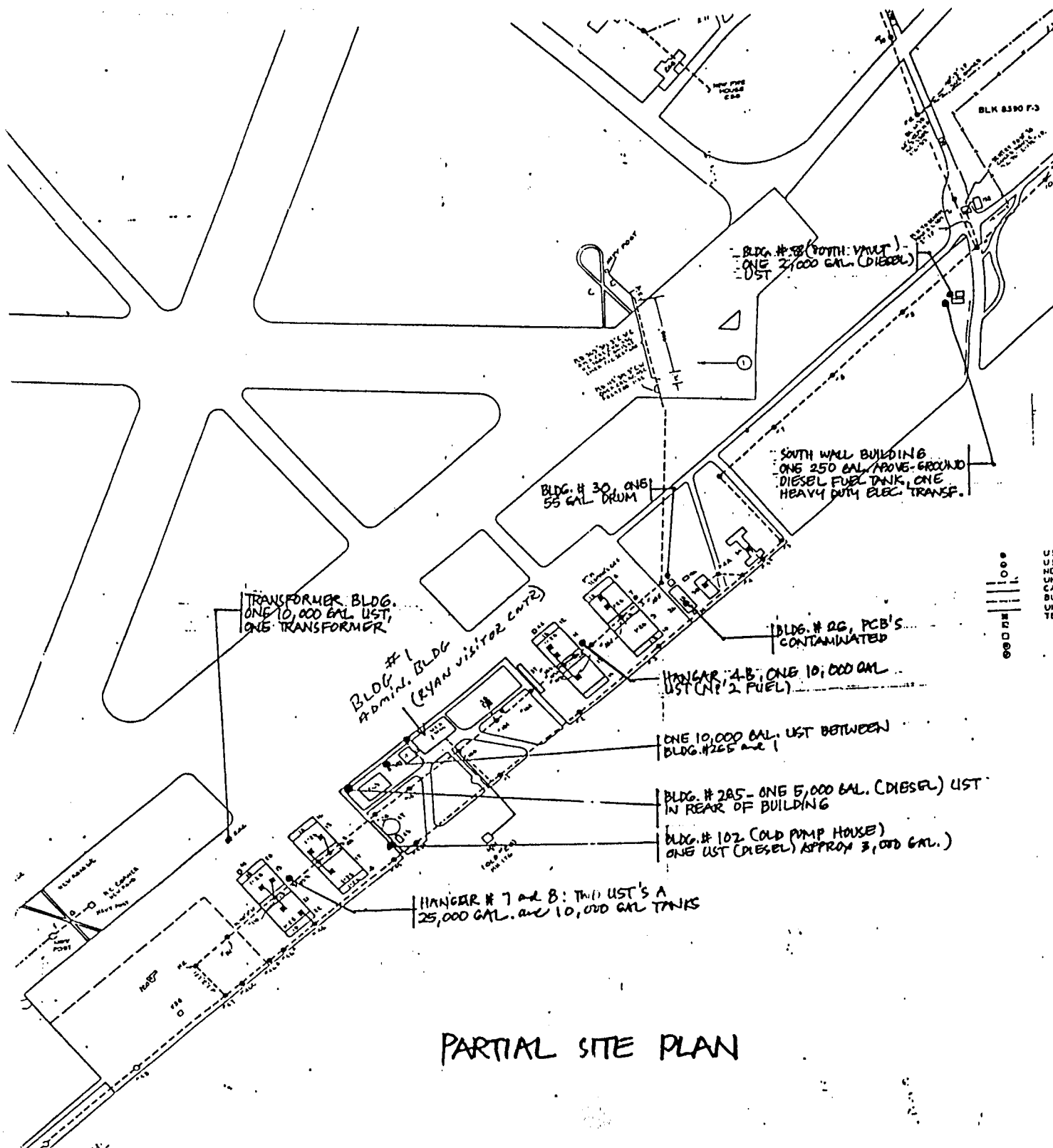


**NORTH**

**PARTIAL SITE PLAN**

ENCL 1





← NORTH

PARTIAL SITE PLAN

**SITE SURVEY SUMMARY SHEET**  
**FOR**  
**DERP-FUDS SITE No. C02NY003204**  
**FLOYD BENNETT FIELD, JAMAICA BAY, NEW YORK**  
**28 NOVEMBER 1990**

**SITE NAME:** Floyd Bennett Field, Gateway National Recreation Area, formerly Naval Air Station.

**LOCATION:** Floyd Bennett Field, Jamaica Bay, New York; see site map attached at Encl 1.

**SITE HISTORY:** Although the Navy first used this site in 1931, officially Floyd Bennett Field totalling 1522 acres was acquired in two parcels, on 2 February 1942 and 9 February 1942, by property condemnation. The property was used as a Naval Air Station until mid 1973. On 16 January 1973, 52 acres were transferred to the Coast Guard and on 1 October 1974, 1,440 acres were transferred to the National Park Service (NPS). Thirty acres are currently maintained by the U.S. Navy.

**SITE VISIT:** A site visit was conducted on 20 and 21 November 1990 by Abraham Portalatin and Constancio J. Labeste of CENAN-EN-Tq. They spoke with the Residence Engineer, Mr. Kent Hanaki. Names of all persons contacted are in the project file.

**CATEGORY OF HAZARD:** CON/HTW and HTW.

**PROJECT DESCRIPTION:** There are two potential projects at this site.

a. **CON/HTW:** There are forty-nine UST's and four above-ground storage tanks not in use, twenty-eight 55 gal drums, two 1 gal containers labeled triscresyl phosphate and six electric transformers. In Building # 126 the possibility of floor contamination exists due to leakage from a 55 gal drum of unknown contents. Since the floor is concrete and the walls concrete block, the contamination is assumed to be contained within this small structure. The project includes the removal of contaminated concrete and concrete-block. Therefore, the demolition of this structure will be incidental to the removal of the concrete slab and concrete block.

b. **HTW:** Three potential HTW project sites exist, and are indicated as follows:

1. **Building # 30:** The possibility of soil contamination exists due to leakage from a 55 gal drum located adjacent to this building. The contents are unknown. It is likely that additional drums were stored here. Therefore, it is quite possible that the soil contamination may cover a large area.



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
**NEW YORK DISTRICT CORPS OF ENGINEERS**  
**JACOB K. JAVITS FEDERAL BUILDING**  
**NEW YORK, N.Y. 10278-0090**

CENAN-EN-Tq (200-1a)

23 April 1991

**MEMORANDUM FOR COMMANDER, NORTH ATLANTIC DIVISION**  
**ATTN: CENAD-PP-PM**


**SUBJECT: DERP-FUDS Inventory Project Report (INPR) For Site No.**  
**C02NY003204 Floyd Bennett Field, Jamaica Bay, New York**

1. This INPR reports on the DERP-FUDS preliminary assessment of the Floyd Bennett Field. A site visit was conducted on 20 and 21 November 1990. The site survey summary sheet, site map and survey item list are in Encl 1.
2. We determined that the site was formerly used by the Navy. The recommended findings and determination of eligibility is in Encl 2.
3. We also determined that there is hazardous waste at the site eligible for cleanup under the DERP-FUDS program. Categories of hazardous waste are CON/HTW and HTW. Project summary sheets and DD Form 1391 are in Encl 3, 4 and 5 for the proposed CON/HTW and HTW projects.
5. I recommend that you:
  - a. Approve and sign the Findings and Determination of Eligibility.
  - b. Forward a copy of this INPR to MRD for a determination of the need for further investigation at the POL Station, Shed and Pad building and Building # 30.
  - c. Forward a copy of this INPR to HND for the PA file.

SUBJECT: DERP-FUDS Inventory Project Report (INPR) For Site No.  
C02NY003204 Floyd Bennett Field, Jamaica Bay, New York

d. Forward a copy of this INPR to CEMP requesting approval and funds for this District to accomplish the CON/HTW project. We can sample the contents of the twenty-eight 55 gal drums by contract and combine their removal with the removal of the forty nine underground storage tanks, four above ground tanks, six transformers and two 1 gal containers to achieve a cost savings over five separate projects. The DD Form 1391 includes sampling and testing in the estimate.

5 Encls.

  
R. M. DANIELSON  
COL, EN  
Commanding

- example, do not measure the same amounts of waste as both tons and cubic yards.
- \*II-03 **Waste Characteristics:** Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.
- III. **Waste Category:** General categories of waste typically found are listed here. Enter the estimated gross amount of the category of waste next to the appropriate substance name and enter the unit of measure used with the estimate.
- \*III-01 **Gross Amount:** Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
- \*III-02 **Unit of Measure:** Enter the appropriate unit of measure: MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons), next to the estimate of gross amount.
- III-03 **Comments:** Comments may be used to further explain, or provide additional information, about particular waste categories.
- IV. **Hazardous Substances:** Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. This information may not be available at the Preliminary Assessment stage. Substances for which information is available are to be listed here. For each substance listed those data items marked with an "at" sign (@) must be included.
- @IV-01 **Category:** Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).
- @IV-02 **Substance Name:** Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
- @IV-03 **CAS Number:** Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
- @IV-04 **Storage/Disposal Method:** Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).
- IV-05 **Concentration:** Enter the concentration of the substance found in samples taken at the site.
- IV-06 **Measure of Concentration:** Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.
- V. **Feedstocks**
- V-01 **Feedstock Name:** If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 **CAS Number:** Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.
- VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 3. **Description of Hazardous Conditions and Incidents**
- \*I. **Identification:** Refer to Part 1-1.
- II. **Hazardous Conditions and Incidents:**
- II-01 **Hazards:** Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
- II-02 **Observed, Potential, or Alleged:** Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.
- II-03 **Population Potentially Affected:** For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.
- II-04 **Narrative Description:** Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.
- II-05 **Description of Any Other Known, Potential, or Alleged Hazards:** Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.
- III. **Total Population Potentially Affected:** Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. **Comments:** Other information relevant to observed, potential, or alleged hazards may be entered here.
- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

### General Information

The Potential Hazardous Waste Site, Preliminary Assessment form is used to record information necessary to make an initial evaluation of the potential risk posed by a site and to recommend further action.

The Preliminary Assessment form contains three parts:

Part 1 — Site Information and Assessment

Part 2 — Waste Information

Part 3 — Description of Hazardous Conditions and Incidents

Part 1 — Site Information and Assessment contains all of the data elements also contained on the Site Identification form required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Preliminary Assessment stage. Instructions are given below.

Part 2 — Waste Information and Part 3 — Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected, that are used in determining the priority for further action. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Site Inspection Report form where they may be used to update, add, delete, or correct information supplied on the Preliminary Assessment.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Preliminary Assessment.

### General Instructions

1. Complete the Preliminary Assessment form as completely as possible.

2. Starred items (\*) are required before assessment information can be added to STS. The system will not accept incomplete assessment information.

3. To add a site to STS at the Preliminary Assessment stage, write "New" across the top of the form and complete items II-01, 02, 03, 04, and 06, Site Name and Location, and item III-13, Type of Ownership.

4. Data items carried in STS, which are identical to those on the Site Identification form and which can be added, deleted, or changed using the Preliminary Assessment form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete), or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Preliminary Assessment form. The first is to use a new Preliminary Assessment form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data carried in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

### Detailed Instructions

#### Part 1 Site Information and Assessment

I. Identification: Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.

\*I-01 State: Enter the two character alpha-FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.

\*I-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification form.

II. Site Name and Location: If Site Name and Location information require no additions or changes, these items are not required on the Preliminary Assessment form. However, completing these items will facilitate use of the completed form and records management procedures.

#II-01 Site Name: Enter the legal, common, or descriptive name of the site.

#II-02 Site Street: Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW intersection I-295 & US 99; Post Rd, 5 mi W of Rt. 5.

#II-03 Site City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.

#II-04 Site State: Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item I-01.

#II-05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site is located.

#II-06 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.

#II-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst will furnish this data item.)

#II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.

II-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0".

II-10 Directions to Site: Starting from the nearest public road, provide narrative directions to the site.

## Part 1 (continued)

## PRELIMINARY ASSESSMENT

## III. Responsible Parties

- III-01 Site Owner: Enter the name of the owner of the site. The site owner is the person, company, or federal, state, municipal or other public or private entity, who currently holds title to the property on which the site is located.
- III-02 Site Owner Address: Enter the current complete business, residential, or mailing address at which the owner of the site can be reached.
- III-06 Site Owner Telephone Number: Enter the area code and local telephone number at which the owner of the site can be reached.
- III-07 Site Operator: If different from Site Owner, enter the name of the operator at the site. The site operator is the person, company, or federal, state, municipal or other public or private entity, who currently, or most recently, is, or was, responsible for operations at the site.
- III-08 Site Operator Address: Enter the current complete business, residential, or mailing address at which the operator of the site can be reached.
- III-12 Site Operator Telephone Number: Enter the area code and local telephone number at which the operator of the site can be reached.
- III-13 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.
- III-14 Owner/Operator Notification On File: Check the appropriate box(es) to indicate that the notification required by RCRA (3001) and/or CERCLA (103c, Superfund) have been received. If received, enter the date(s) received. Check none if not received.
- IV. Characterization of Potential Hazard
- IV-01 On Site Inspection: Check the appropriate box to indicate that the site has been inspected or visited by EPA, a state or local official, or a contractor representative of EPA or a state or local government. Enter the date of the inspection. Check the appropriate box(es) to indicate who visited the site or performed the inspection. If the site visit was performed by a contractor, enter the name of the company.
- IV-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
- IV-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of waste treatment, storage, and/or disposal activities at the site. Check Unknown if the years of operation are not known.
- IV-04 Description of Substances Possibly Present, Known, or Alleged: Provide a narrative description of

hazardous, potentially hazardous, or other substances present, or claimed to be present, at the site.

- IV-05 Description of Potential Hazard to Environment and/or Population: Provide a narrative description of the potential hazard the site poses to the environment and to exposed population or wildlife. If no hazard, or potential hazard, exists, provide the basis for that determination.

## V. Priority Assessment

- V-01 Priority for Inspection: Check the appropriate box to indicate the priority for further action or inspection. If no further action is required, complete the Potential Hazardous Waste Site, Current Disposition form. The Priority for Inspection assessed must be supported by appropriate data in Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents of this form. If no hazardous conditions exist, Part 3 is not required.

## VI. Information Available From

- VI-01 Contact: Enter the name of the individual who can provide information about the site.
- VI-02 Of: If appropriate, enter the name of the Public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- VI-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- VI-04 Person Responsible for Assessment: Enter the name of the individual who made the site assessment and assigned the priority rating to the site. The person responsible for the assessment may be different from the individual who prepared the form.
- VI-05 Agency: Enter the name of the Agency where the individual who made the assessment is employed.
- VI-06 Organization: Enter the name of the organization within the Agency.
- VI-07 Telephone Number: Enter the area code and local telephone number of the individual who made the assessment.
- VI-08 Date: Enter the date the assessment was made.

## Part 2 Waste Information

## I. Identification: Refer to Part 1-I.

- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.

- II-01 Physical States: Check the appropriate box(es) to indicate the state(s) of waste present, or thought to be present, at the site. If Other is indicated, specify the physical state of the waste.

- II-02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For

## APPENDIX

## I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-38-0	Antimony	15. 7758-98-7	Cupric Sulfate	28. 1310-58-3	Potassium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29. 115-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-9	Sodium Dichromate
5. 1327-63-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21109-95-6	Barium Sulfide	19. 7664-39-3	Hydrogen Fluoride	32. 7646-78-8	Stannic Chloride
7. 7726-95-6	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-99-8	Stannous Chloride
8. 105-89-0	Butadiene	21. 7439-97-6	Mercury	34. 7664-93-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 108-88-3	Toluene
10. 7782-60-6	Chlorine	23. 91-20-3	Naphthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7646-85-7	Zinc Chloride
12. 7440-47-3	Chromium	25. 7697-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

## II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde	47. 1303-33-9	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 542-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94. 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanohydrin	50. 65-85-0	Benzoic Acid	95. 3251-23-8	Cupric Nitrate
5. 506-96-7	Acetyl Bromide	51. 100-47-0	Benzonitrile	96. 5893-66-3	Cupric Oxalate
6. 75-36-5	Acetyl Chloride	52. 98-88-4	Benzoyl Chloride	97. 7758-98-7	Cupric Sulfate
7. 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid	55. 7787-47-6	Beryllium Chloride	100. 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101. 110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13597-99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Allyl Alcohol	58. 123-86-4	Butyl Acetate	103. 94-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104. 50-29-3	DDT
14. 7664-41-7	Ammonia	60. 108-73-9	Butylamine	105. 333-41-6	Diazinon
15. 631-61-8	Ammonium Acetate	61. 107-82-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863-63-4	Ammonium Benzoate	62. 543-90-8	Cadmium Acetate	107. 1194-65-6	Dichlobenil
17. 1066-33-7	Ammonium Bicarbonate	63. 7789-42-6	Cadmium Bromide	108. 117-80-6	Dithione
18. 7789-09-5	Ammonium Bichromate	64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341-49-7	Ammonium Bifluoride	65. 7778-44-1	Calcium Arsenate	110. 266-38-19-7	Dichloropropene (all isomers)
20. 10192-30-0	Ammonium Bisulfite	66. 52740-16-6	Calcium Arsenite	111. 26952-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate	67. 75-20-7	Calcium Carbide	112. 8003-19-8	Dichloropropene-Dichloropropene Mixture
22. 12125-02-9	Ammonium Chloride	68. 13765-19-0	Calcium Chromate		
23. 7788-98-9	Ammonium Chromate	69. 592-01-8	Calcium Cyanide	113. 75-99-0	2,2-Dichloropropionic Acid
24. 3012-65-5	Ammonium Citrate, Dibasic	70. 26264-06-2	Calcium Dodecylbenzene Sulfonate	114. 62-73-7	Dichlorvos
25. 13826-83-0	Ammonium Fluoborate			115. 60-57-1	Dieldrin
26. 12125-01-8	Ammonium Fluoride	71. 7778-54-3	Calcium Hypochlorite	116. 109-89-7	Diethylamine
27. 1336-21-6	Ammonium Hydroxide	72. 133-06-2	Captan	117. 124-40-3	Dimethylamine
28. 6009-70-7	Ammonium Oxalate	73. 63-25-2	Carbaryl	118. 25154-54-5	Dinitrobenzene (all isomers)
29. 16919-19-0	Ammonium Silicofluoride	74. 1563-66-2	Carbofuran	119. 51-28-5	Dinitrophenol
30. 7773-06-0	Ammonium Sulfamate	75. 75-15-0	Carbon Disulfide	120. 25321-14-6	Dinitrotoluene (all isomers)
31. 12135-76-1	Ammonium Sulfide	76. 56-23-5	Carbon Tetrachloride	121. 85-00-7	Diquat
32. 10196-04-0	Ammonium Sulfite	77. 57-74-9	Chlordane	122. 298-04-4	Disulfoton
33. 14307-43-8	Ammonium Tartrate	78. 7782-50-5	Chlorine	123. 330-54-1	Diuron
34. 1762-95-4	Ammonium Thiocyanate	79. 108-90-7	Chlorobenzene	124. 27176-87-0	Dodecylbenzenesulfonic Acid
35. 7783-18-8	Ammonium Thiosulfate	80. 67-66-3	Chloroform	125. 115-29-7	Endosulfan (all isomers)
36. 628-63-7	Amyl Acetate	81. 7790-94-5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
37. 62-53-3	Aniline	82. 2921-88-2	Chlorpyrifos	127. 106-89-8	Epichlorohydrin
38. 7647-18-9	Antimony Pentachloride	83. 1068-30-4	Chromic Acetate	128. 563-12-2	Ethion
39. 7789-61-9	Antimony Tribromide	84. 7738-94-5	Chromic Acid	129. 100-41-4	Ethyl Benzene
40. 10025-91-9	Antimony Trichloride	85. 10101-53-8	Chromic Sulfate	130. 107-15-3	Ethylenediamine
41. 7783-56-4	Antimony Trifluoride	86. 10049-05-5	Chromous Chloride	131. 106-93-4	Ethylene Dibromide
42. 1309-64-4	Antimony Trioxide	87. 544-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
43. 1303-32-8	Arsenic Disulfide	88. 14017-41-5	Cobaltous Sulfamate	133. 60-00-4	EDTA
44. 1303-28-2	Arsenic Pentoxide	89. 56-72-4	Coumaphos	134. 1185-57-5	Ferric Ammonium Citrate
45. 7784-34-1	Arsenic Trichloride	90. 1319-77-3	Cresol	135. 2944-67-4	Ferric Ammonium Oxalate
46. 1327-63-3	Arsenic Trioxide	91. 4170-30-3	Crotonaldehyde	136. 7705-08-0	Ferric Chloride



## II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
137. 7783-50-8	Ferric Fluoride	192. 74-89-5	Monomethylamine	249. 7632-00-0	Sodium Nitrate
138. 10421-48-4	Ferric Nitrate	193. 300-78-8	Naled	250. 7558-79-4	Sodium Phosphate, Dibasic
139. 10028-22-6	Ferric Sulfate	194. 91-20-3	Naphthalene	251. 7601-54-9	Sodium Phosphate, Tribasic
140. 10045-89-3	Ferrous Ammonium Sulfate	195. 1338-24-5	Naphtheneic Acid	252. 10102-18-8	Sodium Selenite
141. 7758-84-3	Ferrous Chloride	196. 7440-02-0	Nickel	253. 7789-08-2	Strontium Chromate
142. 7720-78-7	Ferrous Sulfate	197. 15699-18-0	Nickel Ammonium Sulfate	254. 87-24-9	Strychnine and Salts
143. 208-44-0	Fluoranthene	198. 37211-05-5	Nickel Chloride	255. 100-420-5	Styrene
144. 50-00-0	Formaldehyde	199. 12064-48-7	Nickel Hydroxide	256. 12771-08-3	Sulfur Monochloride
145. 64-18-6	Formic Acid	200. 14216-75-2	Nickel Nitrate	257. 7664-93-9	Sulfuric Acid
146. 110-17-8	Fumaric Acid	201. 7786-81-4	Nickel Sulfate	258. 93-78-6	2,4,5-T Acid
147. 98-01-1	Furfural	202. 7697-37-2	Nitric Acid	259. 2008-46-0	2,4,5-T Amines
148. 86-50-0	Guthion	203. 98-95-3	Nitrobenzene	260. 93-79-8	2,4,5-T Esters
149. 76-44-8	Heptachlor	204. 10102-44-0	Nitrogen Dioxide	261. 13580-99-1	2,4,5-T Salts
150. 118-74-1	Hexachlorobenzene	205. 25154-55-6	Nitrophenol (all isomers)	262. 93-72-1	2,4,5-TP Acid
151. 87-68-3	Hexachlorobutadiene	206. 1321-12-6	Nitrotoluene	263. 32534-95-6	2,4,5-TP Acid Esters
152. 67-72-1	Hexachloroethane	207. 30525-89-4	Paraformaldehyde	264. 72-54-8	TDE
153. 70-30-4	Hexachlorophene	208. 56-38-2	Parathion	265. 95-84-3	Tetrachlorobenzene
154. 77-47-4	Hexachlorocyclopentadiene	209. 608-93-5	Pentachlorobenzene	266. 127-18-4	Tetrachloroethane
155. 7647-01-0	Hydrochloric Acid (Hydrogen Chloride)	210. 87-86-5	Pentachlorophenol	267. 78-00-2	Tetraethyl Lead
156. 7664-39-3	Hydrofluoric Acid (Hydrogen Fluoride)	211. 85-01-8	Phenanthrene	268. 107-49-3	Tetraethyl Pyrophosphate
157. 74-90-8	Hydrogen Cyanide	212. 108-95-2	Phenol	269. 7446-18-8	Thallium (I) Sulfate
158. 7783-06-4	Hydrogen Sulfide	213. 75-44-5	Phosgene	270. 108-88-3	Toluene
159. 78-79-6	Isoprene	214. 7664-38-2	Phosphoric Acid	271. 8001-35-2	Toxaphene
160. 42504-48-1	Isopropenolamine	215. 7723-14-0	Phosphorus	272. 12002-48-1	Trichlorobenzene (all isomers)
161. 115-32-2	Dodecylbenzenesulfonate	216. 10025-87-3	Phosphorus Oxychloride	273. 52-68-6	Trichlorfon
162. 143-50-0	Keithane	217. 1314-80-3	Phosphorus Pentasulfide	274. 25323-89-1	Trichloroethane (all isomers)
163. 301-04-2	Lead Acetate	218. 7719-12-2	Phosphorus Trichloride	275. 79-01-6	Trichloroethylene
164. 3687-31-8	Lead Arsenate	219. 7784-41-0	Potassium Arsenate	276. 25167-82-2	Trichlorophenol (all isomers)
165. 7758-95-4	Lead Chloride	220. 10124-50-2	Potassium Arsenite	277. 27323-41-7	Triethanolamine
166. 13814-96-5	Lead Fluoborate	221. 7778-50-9	Potassium Bichromate		Dodecylbenzenesulfonate
167. 7783-46-2	Lead Fluoride	222. 7789-00-6	Potassium Chromate	278. 121-44-8	Triethylamine
168. 10101-63-0	Lead Iodide	223. 7722-64-7	Potassium Permanganate	279. 75-50-3	Trimethylamine
169. 18256-98-9	Lead Nitrate	224. 2312-35-8	Propargite	280. 541-09-3	Uranyl Acetate
170. 7428-48-0	Lead Stearate	225. 79-09-4	Propionic Acid	281. 10102-06-4	Uranyl Nitrate
171. 15739-80-7	Lead Sulfate	226. 123-62-6	Propionic Anhydride	282. 1314-62-1	Vanadium Pentoxide
172. 1314-87-0	Lead Sulfide	227. 1336-36-3	Polychlorinated Biphenyls	283. 27774-13-6	Vanadyl Sulfate
173. 592-87-0	Lead Thiocyanate	228. 151-50-8	Potassium Cyanide	284. 108-05-4	Vinyl Acetate
174. 58-89-9	Lindane	229. 1310-58-3	Potassium Hydroxide	285. 75-35-4	Vinylidene Chloride
175. 14307-35-8	Lithium Chromate	230. 75-56-9	Propylene Oxide	286. 1300-71-6	Xylenol
176. 121-75-5	Malthion	231. 121-29-9	Pyrethrins	287. 557-34-6	Zinc Acetate
177. 110-16-7	Maleic Acid	232. 91-22-5	Quinoline	288. 52628-25-8	Zinc Ammonium Chloride
178. 108-31-8	Maleic Anhydride	233. 108-46-3	Resorcinol	289. 1332-07-6	Zinc Borate
179. 2032-65-7	Mercaptodimethur	234. 7446-08-4	Selenium Oxide	290. 7699-45-8	Zinc Bromide
180. 592-04-1	Mercuric Cyanide	235. 7761-88-8	Silver Nitrate	291. 3486-35-9	Zinc Carbonate
181. 10045-94-0	Mercuric Nitrate	236. 7631-89-2	Sodium Arsenate	292. 7646-85-7	Zinc Chloride
182. 7783-35-9	Mercuric Sulfate	237. 7784-46-5	Sodium Arsenite	293. 557-21-1	Zinc Cyanide
183. 592-85-8	Mercuric Thiocyanate	238. 10588-01-9	Sodium Bichromate	294. 7783-49-3	Zinc Fluoride
184. 10415-75-5	Mercurous Nitrate	239. 1333-83-1	Sodium Bifluoride	295. 557-41-6	Zinc Formate
185. 72-43-6	Methoxychlor	240. 7631-90-5	Sodium Bisulfite	296. 7779-88-4	Zinc Hydrosulfite
186. 74-93-1	Methyl Mercaptan	241. 7775-11-3	Sodium Chromate	297. 7779-88-6	Zinc Nitrate
187. 80-62-6	Methyl Methacrylate	242. 143-33-9	Sodium Cyanide	298. 127-82-2	Zinc Phenolsulfonate
188. 298-00-0	Methyl Parathion	243. 25155-30-0	Sodium Dodecylbenzene Sulfonate	299. 1314-84-7	Zinc Phosphide
189. 7786-34-7	Mevinphos	244. 7681-49-4	Sodium Fluoride	300. 16871-71-9	Zinc Silicofluoride
190. 315-18-4	Mexacarbate	245. 16721-80-5	Sodium Hydrosulfide	301. 7733-02-0	Zinc Sulfate
191. 75-04-7	Monomethylamine	246. 1310-73-2	Sodium Hydroxide	302. 13746-89-9	Zirconium Nitrate
		247. 7681-52-9	Sodium Hypochlorite	303. 16923-95-8	Zirconium Potassium Fluoride
		248. 124-41-4	Sodium Methylate	304. 14644-81-2	Zirconium Sulfate
				305. 10026-11-6	Zirconium Tetrachloride