

1146F: AED: gm  
ALAMEDA/NAS

08 SEP 1983

California Regional Water Quality Control Board  
San Francisco Bay Region  
1111 Jackson Street, Room 604D  
Oakland, California 94607

Attention: Ms. Jean Cox

Subject: Landfill Closure Application and Filing Fee for Solid Waste  
Disposal System at Naval Air Station, Alameda, CA.

Gentlemen:

Enclosed please find the application and filing fee of \$5,000.00 for the  
closure of the Solid Waste Disposal System at Naval Air Station, Alameda,  
California. If additional information is needed, please contact Alex Bong of  
this Command on (415) 877-7498.

Sincerely,

VICTOR I. CRAWFORD, P.E.  
Head, Environmental Management Section

- Encl:
- (1) Application for Facility Permit/Waste Discharge
  - (2) U.S. Treasury Check No. 81,564,675 for \$5000.00

Copy to: (w/o encl)  
NAS Alameda

Blind copy to:  
1142  
09A2A.42  
405 (JMW)

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APPLICATION FOR  
 FACILITY PERMIT/WASTE DISCHARGE

This form is to be used for filing a/an: (check all appropriate)

- 1.  REPORT OF WASTE DISCHARGE  
 (pursuant to Division 7 of the State Water Code)
- 2.  APPLICATION FOR A HAZARDOUS WASTE FACILITY PERMIT  
 (pursuant to Health and Safety Code Section 25200)
- 3.  APPLICATION FOR A SOLID WASTE FACILITIES PERMIT  
 (pursuant to Government Code Section 66796.30)
- 4.  APPLICATION FOR A RUBBISH DUMP PERMIT  
 (pursuant to Public Resources Code Sections 4371-4375 and 4438)

**FOR OFFICE USE ONLY**

Form 200 Rec'd \_\_\_\_\_  
 Fee (RWOCB) \_\_\_\_\_ (SWMB) \_\_\_\_\_  
 Letter to Discharger \_\_\_\_\_  
 Report Rec'd \_\_\_\_\_  
 Effective Date \_\_\_\_\_  
 CDF Notified \_\_\_\_\_  
 DOHS No. \_\_\_\_\_  
 SWMB No. \_\_\_\_\_

I. FACILITY

<b>A. NAME OF FACILITY</b> Naval Air Station (NAS) Sanitary Landfill	<b>TELEPHONE #</b> ( 415 ) 869-4731
<b>ADDRESS</b> Alameda, California	<b>ZIP CODE</b> 94501
<b>B. NAME OF LEGAL OWNER OF FACILITY</b> Naval Air Station, Alameda, California	<b>TELEPHONE #</b> ( 415 ) 869-4731
<b>ADDRESS</b> Alameda, California	<b>ZIP CODE</b> 94501
<b>C. NAME OF BUSINESS OPERATING FACILITY</b> Naval Air Station, Alameda, California	<b>TELEPHONE #</b> ( 415 ) 869-4731
<b>ADDRESS</b> Alameda, California	<b>ZIP CODE</b> 94501
<b>D. TYPE OF BUSINESS OPERATING FACILITY</b>	
<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation <input checked="" type="checkbox"/> Government Agency	
<b>E. NAME OF OWNER(S) OF BUSINESS OPERATING FACILITY</b>	<b>TELEPHONE #</b> (     )
<b>ADDRESS WHERE LEGAL NOTICE MAY BE SERVED</b>	<b>ZIP CODE</b>

II. REASON FOR FILING

CHECK ALL APPROPRIATE:

A. <input type="checkbox"/> New discharge or facility	D. <input type="checkbox"/> Change in character of discharge	G. <input type="checkbox"/> Change in business operating facility
B. <input type="checkbox"/> Existing discharge or facility	E. <input type="checkbox"/> Change in place or method of disposal	H. <input type="checkbox"/> Enlargement of existing facility
C. <input type="checkbox"/> Increase in quantity of discharge	F. <input type="checkbox"/> Change in design or operation	I. <input checked="" type="checkbox"/> Other (explain below) Closure of Landfill

III. TYPE OF OPERATION

CHECK ALL APPROPRIATE:

A. <input type="checkbox"/> Transfer station	D. <input type="checkbox"/> Sewage treatment	G. <input type="checkbox"/> Woodwaste site
B. <input checked="" type="checkbox"/> Solid waste disposal site	E. <input type="checkbox"/> Industry (on-site disposal facility)	H. <input type="checkbox"/> Other (explain below)
C. <input type="checkbox"/> Hazardous waste disposal site	F. <input type="checkbox"/> Industry (discharge to sewer)	

IV. TYPE OF WASTE

CHECK ALL APPROPRIATE:

A. <input type="checkbox"/> Sewage, sewage sludge, and/or septic tank pumpings	E. <input type="checkbox"/> Agricultural wastes	I. <input type="checkbox"/> Inert materials
B. <input type="checkbox"/> Industrial wastes	F. <input type="checkbox"/> Animal wastes	J. <input type="checkbox"/> Dead animals
C. <input checked="" type="checkbox"/> Municipal solid wastes	G. <input type="checkbox"/> Forest product wastes	K. <input type="checkbox"/> Tires
D. <input type="checkbox"/> Hazardous wastes	H. <input type="checkbox"/> Construction/demolition wastes	L. <input type="checkbox"/> Other (explain below)

V. SITE DESIGN CAPACITY

<b>A. PRESENT POPULATION OR CAPACITY</b> 1,000,000 Cubic Yards	<b>B. DESIGN POPULATION OR ULTIMATE CAPACITY</b> No Applicable	<b>C. LIFE EXPECTANCY (YEARS)</b> No Applicable
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NOT Applicable

WASTE DISPOSAL  
SITE (IN TONS OR  
CUBIC YARDS):

DAILY QUANTITY

TOTAL IN PLACE QUANTITY

D. AREA IN WHICH SOIL WILL BE DISTURBED  
(IN ACRES)

TOTAL SITE AREA

VII. LOCATION OF POINT OF DISPOSAL OR OPERATION

DESIGN AND ATTACH MAP, SKETCH, OR LOCATION ON U.S.G.S. QUADRANGLE MAP, 7.5 OR 15 MINUTE SERIES.  
LIST DISTANCES OR BEARING AND DISTANCE FROM SECTION CORNER OR QUARTER CORNER, SECTION, TOWNSHIP, RANGE, BASE AND MERIDIAN:

Not applicable; this filing is for the landfill closure.

VIII. SOURCE OF WATER SUPPLY (CHECK ALL APPROPRIATE)

A.  MUNICIPAL OR UTILITY SERVICE:

B.  INDIVIDUAL (Wells)

NAME OF WATER PURVEYOR

East Municipal Utility District

ADDRESS OF PURVEYOR

P.O. Box 2060

Oakland, CA 94604

C.  SURFACE SUPPLY:

NAME OF STREAM, LAKE, SPRING, ETC. (IF NAMED)

TYPE OF WATER RIGHTS

Riparian  Appropriation

WATER RIGHTS PERMIT OR LICENSE

IX. ENVIRONMENTAL IMPACT REPORT (EIR)

Has an EIR been prepared for this project?  Yes  No

If "Yes", please enclose a copy.

If "No", will an EIR be prepared?  Yes  No

Will a negative declaration be prepared?  Yes  No

If "Yes", please answer the following:

WHO WILL PREPARE THE NEGATIVE DECLARATION?

APPROX. DATE OF COMPLETION

However, an Environmental Impact Assessment was prepared by the Navy (see attached).

CERTIFICATION

I hereby certify under penalty of perjury that the information provided in this application and in any attachments is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER OF FACILITY

*T. E. Shandling*

PRINTED OR TYPED NAME

T. E. SHANDLING

SIGNATURE OF OPERATOR OF FACILITY

PRINTED OR TYPED NAME

TITLE

Environmental/Ecology Officer

DATE

24 Aug 1983

TITLE

DATE

LIST TITLES OF ANY ATTACHMENTS:

You will be notified of the correctness of filing fee and submittal of any additional information deemed necessary to complete your Report of Waste Discharge pursuant to Division 7, Section 13250 of the State Water Code, or to complete your permit application pursuant to Government Code Section 66796.30 and Health and Safety Code Section 25200.

ENVIRONMENTAL IMPACT ASSESSMENT  
FOR THE  
SANITARY/CUT-FILL DISPOSAL AREA LAND FILL SITE CLOSURE  
AT THE NAVAL AIR STATION ALAMEDA, CALIFORNIA

Prepared by the Navy Public Works Center, San Francisco Bay, for Naval Facilities Engineering Command, in accordance with the Department of the Navy, Office of the Chief of Naval Operations, Instruction (OPNAVINST) 6240.3E dated 5 July 1977 in compliance with Section 102(2)(c) of the National Environmental Policy Act of 1969.

ENVIRONMENTAL IMPACT ASSESSMENT

Submitting DOD Component: Department of the Navy

Installation: Naval Air Station, Alameda, California

Project Title: Sanitary/Cut-Fill: Disposal Area Landfill Site Closure

Date of Submission: May 1978

1. INTRODUCTION.

a. Project Description. This project will provide for the final cover, gas migration barrier and erosion control for the abandoned sanitary solid waste disposal area at the Naval Air Station, Alameda, California. The current Federal Solid Waste Disposal Guidelines require 12 inches of intermediate cover and 24 inches of final cover. New State (RWQCB) regulations requiring 12 inches of intermediate cover and 36 inches of final cover have been adopted. The sand and bay mud slurry available from the slurry pond are suitable for cover material.

When obtaining cover material from the slurry pond, it will be removed in a manner that promotes drainage of the slurry pond toward the center of the south side (away from the landfill). This will prevent ponding and minimize surface water contributions to the subsurface water.

The actual thickness of existing intermediate cover over the site is unknown and should be determined by drilling shallow test borings or pits. It is estimated that about one-third of the landfill lacks adequate intermediate cover thickness. Further, the cover soils are very pervious. Dumping operations were discontinued and the dump site was closed; a final cover of three feet will be required. The existing and future intermediate cover can be included as part of the required thickness. Considering the existing cover, about 280,000 cubic yards of material will be needed. It can be obtained from the slurry pond without excavating below Elevation 107.5.

When the landfill is covered with impervious soils there will be less vertical ventilation of methane gas than occurs now and the tendency for the gas to migrate laterally toward the magazines will increase accordingly. To prevent gas movement outside the refuse fill area, vertical collectors should be provided around the north and east perimeters for a length of about 4200 feet. The collectors will consist of 2-foot-wide trenches excavated to a depth of 6 to 10 feet (down to the water table) and backfilled to within 2 feet of the surface with crushed rock. The top 2 feet will be compacted with impervious soils to prevent surface water infiltration. Venting the gas to the atmosphere will be through vertical risers of perforated plastic pipe installed at 100-foot intervals.

b. Existing Environment of the Site. The Naval Air Station is an industrial seaport complex located on the western end of the island of the city of Alameda in Alameda County, California. It is bounded on the south and west by San Francisco Bay and on the north by the Oakland Estuary, a part of the Oakland Inner Harbor. This Seaport Industrial Air Station is homeport for Fleet light attack and electronic warfare squadrons, aircraft carriers, combat stores ships and supports 26 tenant commands including the Naval Air Rework Facility. The total military and civilian population at this station is in excess of 18,000. Prior to 1925, the U.S. Naval Air Station at Alameda was an area of tidal marsh and sloughs. It is underlain by bay mud which is a soft, gray silty clay containing minor amounts of sand and shells. The bay mud tends to become firmer with depth. Sand and clay fill were placed over the mud during the period 1925 to 1929. According to work by the California Division of Mines and Geology, the bottom of the younger bay mud is as deep as 80 to 90 feet and the top of bedrock varies from a depth of 300 to 400 feet. According to record, filling began in 1956 with construction of the sea wall on the south and west sides and hydraulic placement of 15 to 20 feet of sand fill.

The landfill site occupies approximately 110 acres at the southwest corner of the Air Station. It has been divided into three areas designated A, B and C. After initial filling, clayey and sandy dredge spoil was added in Areas B and C. The sanitary landfill has been confined to Areas A and B. The present grade ranges from about Elevation 108.2 (elevations are in feet relative to the Alameda Naval Air Station datum which is Mean Lower-low water plus 101.2) to about 120 near the southeast corner; some sand stockpiles in the latter area are higher than Elevation 135.

Brief descriptions of the three areas are presented below.

1. Area A

Since 1958, this 51-acre area has received refuse fill and wastes from the Naval Air Station, Alameda, its ships and other Navy bases in the area. Only in recent years has the operation been limited to disposing of refuse from the Naval Air Station and its tenant commands. Filling operations were recently completed.

## 2. Area B

This 13-acre area was originally used for disposal of dredge spoil material as discussed in Paragraph 3 below. Subsequently, the area was used for disposal of refuse. Refuse was recently placed as fill in the southeast portion of the area.

## 3. Area C

Area C (46 acres) and Area B were diked and used for the disposal of spoil from dredging operations. Records of the dredging operations at the Air Station show that about 360,000 cubic yards of spoils were deposited in 1970 and another 155,000 cubic yards in 1973. Most of it came from the pier areas, turning basin and entrance channel.

Former landfill operations consisted of (1) excavating about 20 feet of hydraulic sand fill; (2) filling the excavation with waste materials and excavated sand; and (3) covering the fill with the remaining sand.

The recent operation of the landfill was confined to the southeast portion of Area B. A trench was excavated to just above the ground-water surface (depth of five to six feet) and the excavated material is deposited at the working face of the excavation and was spread and compacted with bulldozers. The cover material, which consists of on-site dredge slurry sands and bay mud, was collected by dragline and front-end loader, hauled and deposited by a scraper and spread and track-rolled by bulldozers.

Initial inspections of the filling operations indicated that insufficient material was used to cover the debris. This deficiency has been corrected by obtaining sufficient cover material from Area C.

It has been noted that birds have been a problem to aircraft using the runways adjacent to the landfill. The birds were probably attracted by the refuse exposed during filling, a common occurrence at many landfills close to the Bay.

The Air Station is a Federal facility subject to Public Law 94580, the Resources Conservation and Recovery Act of 1976, which requires that Federal facilities comply with all local and state solid waste regulations. In compliance with this law, the Navy Public Works Center, San Francisco Bay (PWC SFRAN) had applied for and received an operating permit from the Alameda County Health Services Agency for the NAS ALA Sanitary Landfill.

2. RELATIONSHIP OR PROPOSED ACTION TO LAND USE PLANS, POLICIES AND CONTROLS FOR THE AFFECTED AREA. This project will not conflict with the objectives of local land use plans, policies or controls. It is the intent of this project to assure compliance with existing pollution abatement laws, rules and regulations and to maintain the integrity of the baseline profile.

3. THE PROBABLE IMPACT OF THE PROPOSED ACTION ON THE ENVIRONMENT. This project will have a beneficial impact on the environment by restoring the sanitary land fill site to an aesthetic landscape for potential use as a recreation area and wildlife habitat.

4. ALTERNATIVES. There are no viable alternatives to this project. The existing condition of the landfill site is in violation of the California Solid Waste Management and Resources Recovery Act; Sections 17684 and 17685 of the State of California Administrative Code, Title 14, Article 7, "Disposal Site Standards; Alameda County Public Health Service, Division of Environmental Health Solid Waste Facility Permit No. 01-AA-78 and Executive Order 11752.

5. ANY PROBABLE ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED SHOULD THE PROPOSAL BE IMPLEMENTED. During the construction period, the normal construction operations will create minor short-term impacts. The fact that the proposed project is in an area remote from major activities, will not increase the ambient noise in the area, nor will it violate air pollution standards, Storage of construction equipment will not be objectionable; the work site is out of public view.

6. RELATIONSHIP BETWEEN LOCAL SHORT-TERM USE OF MAN'S ENVIRONMENT AND THE MAINTENANCE AND ENHANCEMENT OF LONG-TERM PRODUCTIVITY. During the construction and clean-up operations there will be short-term disturbances in the immediate work areas and temporary inconvenience to normal functions adjacent to the construction site. This short-term impact is minimal when compared to the long-term benefits accrued by termination of an objectionable landfill site condition. Substantial delays in the programmed time tables for this project could materially change the environmental impact and affect the Navy's image.

7. ANY IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES THAT WOULD BE INVOLVED IN THE PROPOSED ACTION SHOULD IT BE IMPLEMENTED. The only irreversible and irretrievable resources to be committed would be the labor and materials for construction.

8. CONSIDERATIONS THAT OFFSET THE ADVERSE ENVIRONMENTAL EFFECTS. Since the intent and purpose of the proposed action is to enhance the environment by restoring 110 acres of land to a usable area suitable for possible recreation areas or other acceptable purposes, the minor adverse environmental effects are negligible.