

JOHN WAIHEE
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IN REPLY REFER TO:

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OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

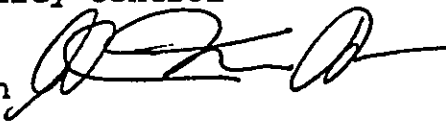
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

June 27, 1991

HAR-EP 795.91

To: Mr. Brian Choy, Acting Director
Office of Environmental Quality Control

From: Edward Y. Hirata, Director
Department of Transportation 

Subject: NEGATIVE DECLARATION - HAWAIIAN CEMENT BULK CEMENT
PIPELINE IMPROVEMENT AT NAWILIWILI HARBOR

In accordance with Chapter 343-5 (c), Hawaii Revised Statutes, we have reviewed the environmental assessment and determined that the action will not have a significant impact and, therefore, it is submitted as a Negative Declaration (NEG/DEC). We have enclosed the original plus four (4) copies of the NEG/DEC on the proposal and a completed OEQC Form for publication in the OEQC Bulletin.

Should you have any question on the action, please contact Howard Miura of our Harbors Division at 548-2559.

Enc.

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**HAWAIIAN
CEMENT**

Cement Division

FILE COPY

1991-07-08-KA-FEA

May 21, 1991

TO: Hawaii State Department of Transportation
Harbors Division

Attention: Property Management

**Hawaiian Cement*
SUBJECT: Proposed Pipeline Improvement for Bulk Cement
Facility at Nawiliwili Harbor, Kauai *

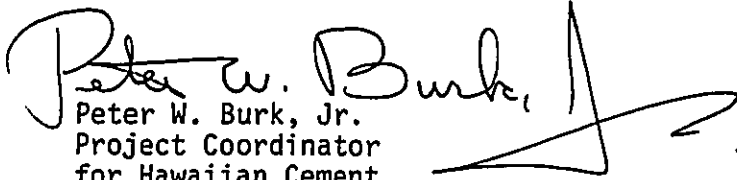
Attached is the ENVIRONMENTAL ASSESSMENT (Negative Declaration) prepared for the proposed pipeline improvement serving the existing Hawaiian Cement bulk cement facility at Nawiliwili Harbor, Kauai. This assessment is for your review, your determination, and your forwarding to the Hawaii State Office of Environmental Quality Control (OEQC). The Hawaiian Cement parcel at Nawiliwili Harbor is described as:

Tax Map Key 3-2-04-12 29,257 square feet .067 acre

The proposed pipeline improvement consists of re-routing two existing 10-inch diameter pipelines from an old alignment into an existing 5-foot wide pipeline easement in which there exists a 10-inch pipeline to the Hawaiian Cement facility. This improvement will result in three pipelines from two already existing dock/hatches, to better expedite the unloading of bulk cement when the barge is at the pier. All pipeline work will be for underground construction until the pipelines reach the Hawaiian Cement parcel where the pipelines will be brought to top of the existing storage silos.

Also attached is the OEQC Form for Publication.

Respectfully submitted,


Peter W. Burk, Jr.
Project Coordinator
for Hawaiian Cement
(Telephone: 422-7149)

PWB/aw

Enclosures: Environmental Assessment for Nawiliwili Pipeline
Project, ~~with ASCII disc~~ OEQC Form for Publication

cc: Frank Steinmiller
John Shin

ENVIRONMENTAL ASSESSMENT

For Improvement of
BULK CEMENT FACILITY
at

NAWILIWILI HARBOR

County of Kauai

Tax Map Key 3-2-04-12

(Negative Declaration)

1. Applicant: HAWAIIAN CEMENT
Campbell Industrial Park
91-055 Kaomi Loop
Ewa Beach, Hawaii 96707-1786
2. Approving Agency: Hawaii State Department of
Transportation Harbors Division
3. Agencies Consulted: Harbors Division

Prepared by HAWAIIAN CEMENT

May 1991

4. GENERAL DESCRIPTION OF THE PROPOSED ACTION

Hawaiian Cement proposes to improve the existing facility at Nawiliwili Harbor for the receiving, storage, and distribution of bulk portland cement. About in year 1980, Hawaiian Cement obtained a lease from the Harbors Division for a parcel of 21,600 square feet area designated as TMK 3-2-04-15p. A dock/hatch at Pier 1 was installed together with two underground 10 inch pipelines for transport of bulk portland cement from a barge into storage facilities on this parcel. These two pipelines are shown as "B" and "C" on the attached drawing. Subsequently, a similar facility at Nawiliwili Harbor operated by Kaiser Cement and Gypsum Company became available and the land for this facility was assigned under lease to Hawaiian Cement by the Harbors Division. This parcel was TMK 3-2-04-12 with land area of 29,257 square feet. Hawaiian Cement was also assigned the pipeline easement from Pier 1 to this prior KC&G parcel. This pipeline is shown as "A" on the attached drawing.

It is desired by Harbors Division that the earlier 21,600 square foot parcel be returned for other harbor use. A new 35 year lease for the 29,257 square foot parcel is currently being prepared by Harbors Division.

The improvement proposed by Hawaiian Cement, is for excavation at the place where Pipeline "A" intersects the two Pipelines "B" and "C", and to re-route "B" and "C" into the existing easement for "A" from the intersection to the 29,257 square foot parcel. This is a distance of about 450 feet for which the existing Pipeline "A" will be exposed by excavation and the new Pipelines "B" and "C" placed alongside in the same 5 foot wide easement. The three pipelines will be covered with concrete jacket to minimum 4 inches of coverage all around, excavation backfilled and tamped, and the paved surface restored. All three pipelines are of 10 inch diameter, schedule 40 pipe. Proposed work within the parcel will be continuation of the pipelines into the top of the existing storage silos, and installation of a supplemental dust collector to prevent escape of cement dust.

A. TECHNICAL CONSIDERATIONS

The new piping will be all welded construction. The existing Pipeline "A" is in regular use and there will be no changes in this pipe under this project. The new portions of "B" and "C" from the intersection to the silos will be installed alongside Pipeline "A", but before placing of the

concrete jacket both new pipelines will be tested by Hawaiian Cement to reveal possible leakage.

The method of pneumatic transfer of aerated bulk portland cement through a pipeline is common in the cement industry and has been used at major harbors in Hawaii for the past 20 years. Pipeline pressure of about 25 psi is maintained by a barge-installed air compressor system for the self-unloading barge at any neighbor island bulk cement facility.

B. ECONOMIC CONSIDERATIONS

The proposed improvement of providing a system of multiple pipelines for cement unloading will reduce the time that the barge must be at the pier. By more efficient use of the specialized self-unloading barge, there will be better capability to supply customers' needs for the product on Kauai, as well as on other neighbor islands. The ultimate consideration is to supply this basic building material at the lowest reasonable cost for a safe, dependable, and environmentally satisfactory means of shipping and handling bulk cement.

C. SOCIAL CONSIDERATIONS

There is the development concept for supplying a necessary basic building material which provides jobs in the construction industry toward an expanding community of commerce, industry and population. This development concept provides social amenities of convenience, comfort, sanitation, and quality of life. This concept must be in a balance with the environmental concept of protection and conservation of natural resources. Our various government agencies review the many proposals for construction of social amenities, and for the proposals which are approved, there must be inherent approval for the supply and use of necessary construction materials. Most of materials for cement manufacture and concrete production are produced within our own State of Hawaii, and contribute toward our social and economic climate. The designation by State Land Use Board for the Nawiliwili Harbor area is URBAN - Mixed Use.

D. ENVIRONMENTAL CONSIDERATIONS

The existing bulk cement facility is on leased land within the Harbors Division area of Nawiliwili Harbor. The project site is about two miles southeasterly from Lihue and is just off the intersection of Nawiliwili Road with Waapa Road. The average annual rainfall is about 40 inches, but existing storm drains and general land configurations overcomes any flooding which would affect the bulk cement facility. The cement facility does not contribute significantly toward a drainage problem. The harbor area is essentially filled land which has had multiple uses over many past years. Most recently the area mauka of Pier 1 has become cleared and improved as an open yard for container handling. The Hawaiian Cement facility (parcel of 29,257 square feet) is completely fenced and is immediately adjacent to the container yard along the southerly edge of the parcel.

This has been a long time industrial area without surviving evidence of historical or archeological interest. There is no pre-existing geological feature or natural habitat. This is simply a busy industrial area. About 90 percent of the land within 500 feet of the bulk cement parcel is State of Hawaii land for use by Harbors Division, except for the Nawiliwili Park on east side of Waapa Road. The closest portion of this park to the bulk cement parcel is about 180 feet. There is no evidence that the past operation of the bulk cement facility has impacted upon enjoyable recreational use of this park.

The proposed improvement will require excavation of a trench 3 feet wide and about 450 feet long for the placement of Pipelines "B" and "C", the backfilling, and the restoration of the paved surface to "as-it-was" condition. The contractor will use water-sprinkle methods to control possible dusting. Governmental requirements regarding air pollution during construction will be complied with. It is believed that the bulk cement parcel is barely outside of the Shoreline Management Area, but of the new underground pipeline will be within the SMA boundary.

5. SUMMARY DESCRIPTION FOR THE ENVIRONMENT

The area of construction and the entire area of Nawiliwili Harbor for many years has been an industrial area with no remaining flora, or fauna, or geological evidence of the pre-harbor environment. The proposed construction of underground Pipelines "B" and "C" will be a temporary disruption within the container yard until construction is finished and the pavement surface is restored.

6. SUMMARY OF MAJOR IMPACTS

Upon completion, the underground pipelines will have zero impact upon quality of water or atmosphere, and no impairment of scenic views. Within the bulk cement parcel, the pipelines will rise out of the ground and vertically up along outside of the storage silo. The exposed piping will be painted and maintained and expected to have no significant visual impact. During construction, water will be used by the contractor to control dust at the trench excavation.

Regarding the pipeline transfer of bulk portland cement, any dusting of the product at the silo is prevented by a bag-type dust collector. Noise of the generators and air compressors for the specialized self-unloading barge is contained and baffled because the machinery is located deep within the barge. Years of past operation of this barge has not resulted in noise complaints. Any truck traffic by bulk cement delivery trucks is but a small part of the total traffic generated at the busy Nawiliwili Harbor.

It appears that there will be no major impacts upon the environment as result of this work. A determination of "Negative Declaration" is believed to be appropriate for this improvement.

7. ALTERNATIVES CONSIDERED

The fundamental alternate possibilities range from the social consideration of government mandated return to more primitive human life style with minimum of housing, utilities, sanitation, transportation and communications network and minimum population (for which there would be no need for harbor industrialization) to the present style of residential, tourism, and commercial activity on Kauai. If Hawaiian Cement should choose not to supply the portland cement needed for modern construction on Kauai, then some other supplier either local or foreign would surely come forth to supply such demand.

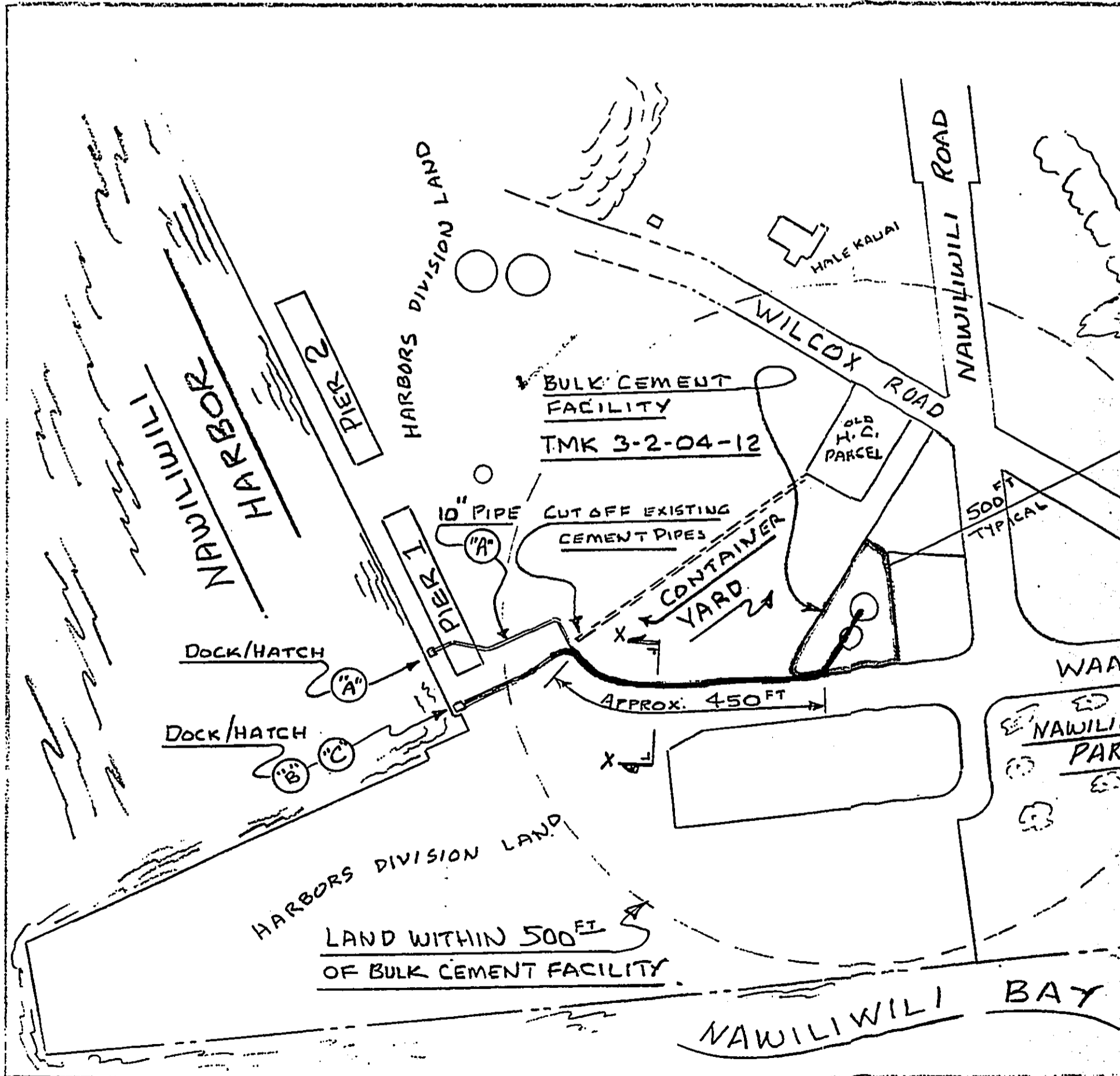
Regarding technical alternatives, the herein described method for transfer of bulk cement is the standard for the cement industry.

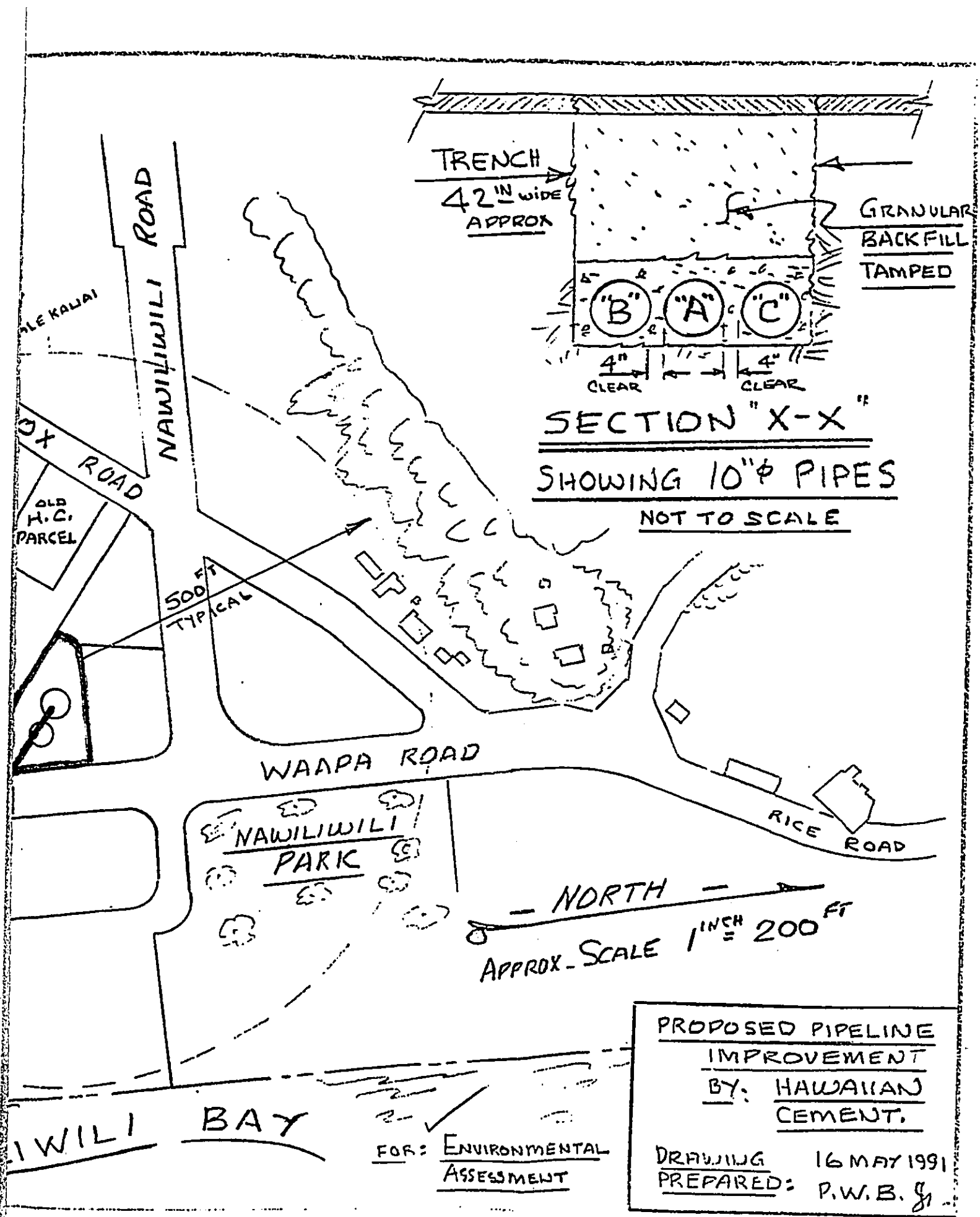
The cement powder is constantly contained within a leak-proof piping system until it is released into a storage silo where dust collection equipment prevents the escape of dust. This method is extremely more cost effective than any "batch" method of bulk transport in containers, and the dumping out of bulk containers would cause air pollution problems.

8. MITIGATION MEASURES

The major environmental concern in the handling of bulk cement is the possible escape of cement dust into the atmosphere. The industry-wide method for preventing escape of cement dust is use of the bag-type dust collector connected into a closed system whereby dust emission is eliminated. Such dust collector is an industrial version of the common hand-operated vacuum cleaner used in everyday housekeeping. Regarding cement dust, it is entirely a mineral dust without organic or carbonaceous content and therefore, cannot burn or explode. Cement dust is not an explosion threat or fire hazard as is associated with the organic dust of grain handling or flour mills.

9. AGENCY DETERMINATION





PROPOSED PIPELINE
 IMPROVEMENT
 BY: HAWAIIAN
 CEMENT.
 DRAWING 16 MAY 1991
 PREPARED: P.W.B.

FOR: ENVIRONMENTAL
 ASSESSMENT

OEQC FORM FOR PUBLICATION OF EIS DOCUMENTS IN THE OEQC BULLETIN

Project title: Proposed Pipeline Improvement for Bulk Cement Facility at Nawiliwili Harbor, Kauai.
District: Island of KAUAI
Island: Hawaiian Cement Parcel 0.67 acre
Acreage: (29,257 square feet)
Tax map key numbers: TMK 3-2-04-12

TO BE FILLED OUT BY THE AGENCY ONLY:

Type of action:
 Agency
 Applicant

Please check all that apply. This document is a:

<input type="checkbox"/> Chapter 205A document	<input type="checkbox"/> NEPA document	<input type="checkbox"/> Chapter 343 document
<input type="checkbox"/> EIS Preparation Notice	<input type="checkbox"/> FONSI	<input type="checkbox"/> Negative Declaration
<input type="checkbox"/> Draft EIS	<input type="checkbox"/> Notice of Preparation (NOP)	<input type="checkbox"/> EIS Preparation Notice
<input type="checkbox"/> Final EIS	<input type="checkbox"/> Draft EIS	<input type="checkbox"/> Draft EIS
	<input type="checkbox"/> Final EIS	<input type="checkbox"/> Final EIS
		<input type="checkbox"/> Acceptance Notice

OEQC must receive 4 copies of the environmental assessment, 60 of the draft EIS, and 25 of the final EIS. Proposing agencies or applicants should deliver an appropriate number of draft and final EISs to the accepting authority before submitting copies to OEQC.

Accepting authority's address: _____

Contact: _____ Phone: _____

Proposing agency or applicant's address: Applicant: HAWAIIAN CEMENT
Campbell Industrial Park
91-055 Kaomi Loop
Ewa Beach, Hawaii 96707-1786

Contact: James K. Hicks Phone: (808) 682-5741
Plant Manager

Consultant's address: Peter W. Burk, Jr
1644 Piikea Street
Honolulu Hawaii zip 96818-1843

Contact: Peter W. Burk, Jr Phone: 422-7149

Summary of the proposed action or project to be published in the bulletin. Please use complete sentences and write plainly and clearly. The description should be brief, but sufficiently detailed so that the full impact of the action can be determined.

Hawaiian Cement proposes to improve the underground pipeline system for the transfer of bulk portland cement at Nawiliwili Harbor, Kauai. The proposed work consists of excavating a trench about 450 feet long to uncover one existing 10-inch pipeline, and install two additional 10-inch pipelines in the same trench. The three pipelines will be covered with a concrete jacket, the trench backfilled, and the pavement surface restored. The trench will be within the existing container yard for the harbor. The three pipelines will be underground to the Hawaiian Cement bulk cement storage facility, where the pipes rise out of the ground and vertically to the top of the storage silos. Dust collection equipment is installed to prevent escape of cement dust into the atmosphere. Except for disruption during construction, this improvement will have no impact upon the environment.

This improvement will result in three underground pipelines from two existing dock/hatches, for the more efficient and uninterrupted transfer of bulk cement from a cement transport barge docked at the Pier.

Please check all that apply. Characteristics that made this action subject to the EIS law:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Use of state or county lands or funds | <input type="checkbox"/> Amendment to a county general plan |
| <input type="checkbox"/> Use of conservation district lands | <input type="checkbox"/> Reclassification of conservation lands |
| <input checked="" type="checkbox"/> Use of shoreline setback area | <input type="checkbox"/> Construction or modification of helicopter facilities |
| <input type="checkbox"/> Use of historic site or district | <input type="checkbox"/> Other |
| <input type="checkbox"/> Use of lands in the Waikiki Special District | |

Estimated project cost:

_____ Federal funds

_____ State funds

_____ County funds

_____ Private funds

_____ TOTAL

Document preparation cost:

_____ Environmental assessment

_____ Draft EIS

_____ Final EIS

_____ Supplemental final EIS

_____ TOTAL