September 11, 1990

Office of Environmental
Quality Control
State of Hawaii
465 South King Street, Room 104
Honolulu, Hawaii 96813

Gentlemen:

Subject: Whitmore Village WWTP Diversion System

This letter is a Notice of Negative Declaration for the Whitmore Village WWTP Diversion System, Wahiawa, Hawaii, pursuant to Chapter 343, HRS. City funds will be used to construct the project between Whitmore Village and Kilani Avenue. This notice of determination was based on an environmental assessment prepared by Kwok Associates, Inc., after consulting with other agencies and individuals. Four (4) copies of the Final Environmental Assessment are attached. The pertinent data for this notice are as follows.

1. Proposing Agency - Department of Public Works, City and County of Honolulu.

2. Proposed Action - The proposed project consists of constructing a diversion system within the Whitmore Avenue and Kamehameha Highway rights-of-way to permit the centralized treatment of wastewater in the Wahiawa area. The diversion system will begin at Thihihi Street and end at Kilani Avenue. A 15-inch gravity system will be installed between Thihihi Street and the Karsten Tht Bridge and an 8 and 10-inch siphon will be constructed from the bridge to Kilani Avenue. The project follows the recommendation of the Whitmore Village Small Community Facility Plan to centralize treatment at Wahiawa when the flows to the Whitmore Village WWTP approaches the existing design flow of 0.20 mgd. Environmental impacts are primarily short-term relating to construction activities which will interfere with
normal traffic. Air quality, ambient noise levels and traffic circulation along Whitmore Avenue, Kamehameha Highway and Kilani Avenue may be affected during construction. Construction plans will be submitted to the utility companies for review and approval prior to construction to avoid conflict with underground utilities.

In the long term, the project would provide adequate sewer capacity for the tributary area to support the City's Development Plan. The project will also eliminate the Whitmore Village Wastewater Treatment Plant and potential odors.

3. Determination - After reviewing the Environmental Assessment prepared for the project and consulting with other government agencies, community organizations and individuals, we have determined that the proposed project will not have a significant impact on the environment, and an Environmental Impact Statement is not required.

4. Reasons Supporting Determination - Reasons and conditions supporting the determination are based on the following criteria. The proposed project will not:

- affect any rare or endangered flora or fauna;
- destroy any archaeological, historical or cultural resources;
- displace any families or commercial establishments
- degrade environmental quality;
- conflict with the State’s environmental policies and goals expressed in Chapter 344, HRS.

5. Contact Person - Jay Hamai
Division of Wastewater Management
Department of Public Works
650 South King Street, 14th Floor
Honolulu, Hawaii 96813-3017
Telephone No. 523-4653

Very truly yours,

SAM CALLEJO
Director and Chief Engineer

Attachment (4 copies)

cc: Department of General Planning
Department of Land Utilization
FINAL ENVIRONMENTAL ASSESSMENT FOR

WHITMORE VILLAGE WWTP DIVERSION SYSTEM

WAHIAWA, OAHU, HAWAII

Proposing Agency:

DEPARTMENT OF PUBLIC WORKS
DIVISION OF WASTEWATER MANAGEMENT
CITY AND COUNTY OF HONOLULU
650 South King Street
Honolulu, Hawaii 96813

Submitted Pursuant to Chapter 343, HRS

Responsible Official: C. Michael Satter Date 8/27/90

by Sam Callejo
Director and Chief Engineer

Prepared By:

KWOCK ASSOCIATES, INC.
CONSULTING ENGINEERS
1100 Ward Avenue, Suite 920
Honolulu, Hawaii 96814

AUGUST 1990
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I. DESCRIPTION OF THE PROPOSED PROJECT

A. Project Description

The Wastewater Management Division of the Department of Public Works of the City and County of Honolulu is proposing to construct a sewer system from Whitmore Village to Wahiawa. The project is located in the Central Oahu Sewerage District, Tax Map Key 7-01-02. The project site and locations of the Whitmore Village Wastewater Treatment Plant (WWTP) and Wahiawa WWTP are shown on Figure 1.

This project follows the recommendations of the Whitmore Village Small Community Facility Plan (GMP and Associates, Inc., 1985). The project is Alternative No. 2b of the Facility Plan which is the centralized treatment of flows at the Wahiawa WWTP with the abandonment of Whitmore Village WWTP.

The project consists of construction of a 15-inch gravity sewer from Whitmore Village down Whitmore Avenue and 800 feet toward Wahiawa along Kamehameha Highway, a parallel two barrel 10-inch siphon between the gravity sewer and the Wahiawa end of the Karsten Thot bridge on Kamehameha Highway, a parallel 8-inch and 10-inch siphon between the end of the bridge and the connection to the existing 18-inch sewer at the intersection of Kamehameha Highway and Kilani Avenue, where the sewage will gravity
flow to the Wahiawa WWTP. Whitmore Village WWTP will be abandoned after the project is operational.

The proposed sewer alignment is one of three routes under consideration.

B. Objective of Project

The objective of the proposed project is to provide a sewer system with adequate capacity to effectively transport the existing sewage flows and the expected increase of sewage flows from the Whitmore Village area to the Wahiawa WWTP. Existing sewage generated in the Whitmore Village area is presently treated at the Whitmore Village WWTP.

The Whitmore Village Small Community Facility Plan recommends that the most effective way to manage wastewater flows from Whitmore Village is Alternative No. 1a, "no-action". This solution refers to the operation and maintenance of the Whitmore Village WWTP and Wahiawa WWTP as they now exist. However, the Facility Plan also recommends Alternative No. 2b, "centralized treatment at Wahiawa WWTP with abandonment of Whitmore Village WWTP" if Whitmore Village wastewater flow approaches 0.2 million gallons per day (mgd), the average design flow of the Whitmore Village WWTP. The facility plan did not include the impact of the Kahi Kani subdivision presently being constructed just west of the present Whitmore
Village development, which would increase the average daily flows to 0.4 mgd. This development will increase the residential population to approximately 4,000 people, far greater than the year 2010 population of 3100 persons forecasted in the Facility Plan. An agreement in 1988 by the City to accept wastewater from the nearby naval communications station (NAVCAMS) will also increase sewage flows at Whitmore Village and Wahiawa, if flows are diverted from Whitmore WWTP. The population served by the Whitmore WWTP will increase from 4,000 to 5,500 people. This significant population addition will correspondingly increase the wastewater flow beyond the capacity of the Whitmore Village WWTP and make Alternative No. 2b, "centralized treatment at Wahiawa WWTP with abandonment of Whitmore Village WWTP", the favorable solution.

Other alternatives considered in the Facility plan are Alternative No. 1b, "optimization of the Whitmore Village WWTP" (improvements to the Whitmore Village WWTP), and Alternative No. 2a, "centralized treatment at Wahiawa WWTP with equalization at Whitmore Village WWTP" (use Whitmore Village WWTP as an equalization basin). Both alternatives proved to be more costly and were not recommended in the Facility Plan.
C. Existing System

Whitmore Village is a residential community located in Central Oahu, directly north of Wahiawa. The tributary area covers 135 acres and is shown in Figure 2. The sewage collection system is relatively new and in good condition. Wastewater from the new Kahi Kani subdivision is being pumped by a wastewater pump station in the subdivision through a 6-inch force main into the existing sewer manhole at the intersection of Ihiihi Avenue/Whitmore Avenue. The Whitmore Village WWTP is a secondary treatment plant with an extended aeration process. The plant was designed for a capacity of 0.2 million gallons per day (mgd). Effluent is discharged into the north fork of the Kaukonahua Stream and currently meets National Pollutant Discharge Elimination System (NPDES) requirements. Due to high rainfall in the Whitmore Village area, the sludge drying beds are not being used to dewater sludge. The average of 16,000 gallons per week of aerobically digested sludge is transported to the Wahiawa WWTP by cesspool pumping trucks and mixed with the plant influent flow for further processing.

The Wahiawa WWTP was designed for an average flow of 2.5 mgd and provides secondary treatment using an activated sludge process. Effluent is discharged into the south fork of Lake Wilson and currently meets NPDES
secondary treatment requirements.

D. Proposed System

The proposed system is Alternative No. 2b, "centralized treatment at Wahiawa WWTP with abandonment of the Whitmore Village STP" in the Whitmore Village Small Community Facility Plan. Sewage flows generated in the Whitmore Village area will be transported by the proposed sewer system into the Wahiawa sewer collection system which will carry the flows to the Wahiawa WWTP. After this project is constructed and operational, the Whitmore Village WWTP will be abandoned.

The proposed sewer will start at the existing manhole at the Ihihi Avenue/Whitmore Avenue intersection and will intercept the flow to the Whitmore Village WWTP as shown in Figure 3. Sewage flow will be conveyed in a 15-inch gravity line down Whitmore Avenue to Kamehameha Highway, south along Kamehameha Highway toward Wahiawa for 800 feet to an upstream siphon manhole. From the upstream siphon manhole, sewage will be conveyed by two 10-inch siphon pipes across the Karsten Thot Bridge and by parallel 8-inch and 10-inch siphon pipes from the end of the bridge to the existing 18-inch relief sewer at the intersection of Kamehameha Highway and Kilani Avenue where wastewater will gravity flow to Wahiawa WWTP. Wahiawa WWTP has excess capacity to treat additional
sewage flows from Whitmore Village, Kahi Kani, and NAVCAMS.

The sewer line will be located just off the shoulder of the paved roadway to avoid cutting the road shoulder during trench excavation. When crossing the Karsten Thot Bridge the parallel two barrel 10-inch siphon will be hung under the pedestrian walkway. A section of the bridge crossing is shown in Figure 4.

The project consists of approximately 4700 linear feet of 15-inch gravity sewer, a head works structure, and 2250 linear feet of siphon piping. The headworks structure consists of a comminutor to reduce the size of large solids in the wastewater and a degritter to remove grit from the wastewater.

Connection of the sewage collection system of the Kahi Kani Subdivision to the proposed 15-inch gravity sewer and siphon system will eliminate the need for the pump station and the force main built for the subdivision. The rerouting of sewage flow from Whitmore Village will increase the amount of wastewater treated at Wahiawa WWTP, creating additional aeration and pumping capacity requirements during peak hours. This will not be a problem because the Wahiawa WWTP is capable of handling existing and future increases of sewage flow due to this project.

The Facility Plan reported that the California Avenue
TYPICAL SECTION THRU EDGE OF KARSTEN THOT BRIDGE
SCALE: ½" = 1'-0"

NOTE:
1. ALL HANGER UNITS EXCEPT FOR THE BRONZE ROD SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
2. EXPOSED METAL PIPE HANGERS AND LATERAL BRACES SHALL HAVE ONE COAT OF APPROVED PRIMER COAT AND FINAL COAT OF RUST PREVENTATIVE (METAL GRAY) PAINT.
trunk sewer from Ilima Street to Wahiawa WWTP will be inadequate to handle the year 2010 peak flows regardless of whether Whitmore Village wastewater is diverted to the Wahiawa WWTP. The California Avenue trunk sewer will require a 20-inch line to handle the year 2010 peak flows if Whitmore Village flows are not diverted or a 24-inch line if Whitmore Village flows are diverted.

Summarizing, modifications to increase capacity at the Wahiawa WWTP are not required for diversion of Whitmore Village WWTP flows. However, a California Avenue relief sewer will be required to convey the year 2010 wastewater flows. With the addition of Whitmore Village WWTP flows, the California Avenue sewer must be up sized from 20-inches to 24-inches in diameter. The additional cost of a 24-inch sewer was estimated to be $250,000 in the Preliminary Engineering Report for the relief line.

When flows exceed the capacity of the siphon system, a wastewater pump station is proposed near the upstream siphon manhole. The future wastewater pump station is located along Kamehameha Highway approximately 800 feet south of the Whitmore Avenue intersection on land owned by George Galbraith Trust Estate. This parcel has an area of 12,610 square feet and must be acquired from the land owner. The future wastewater sewage pump station plot plan is shown in Figure 5.
E. Funding

This project has a total estimated construction cost of $1,125,000 and will be funded by the City as part of their capital improvement program. Construction is contingent on appropriation of funds.

F. Schedule

No construction schedule has been determined at this time.

II. DESCRIPTION OF THE ENVIRONMENTAL SETTINGS

A. Location

Whitmore Village is located in Central Oahu, north of Wahiawa and has a population of 2,300 people. Both Whitmore Village and Wahiawa are located in the Wahiawa Judicial District. They are separated by the north fork of the Kaukonahua Stream. The two towns are connected by Kamehameha Highway which crosses the Kaukonahua Stream at the Karsten Thot Bridge.

Development in Whitmore Village is mostly single family residences. A new 300 unit residential development called "Kahi Kani" is presently under construction on the north side of Whitmore Avenue, just west of the existing development. A U.S. Navy Communications Station (NAVCAMS) is located on Whitmore
Avenue east of Whitmore Village. The surrounding area is under pineapple cultivation on lands owned by Castle and Cooke, Inc. and George Galbraith Trust Estate.

B. Climate

Whitmore Village is located in Central Oahu at an elevation of 900-950 feet above mean sea level. The average annual temperature is 75 degrees Fahrenheit. The average annual rainfall is 73 inches. The air quality of the Whitmore Village area is generally excellent.

C. Soil

The soils in the project area are of the Helemano-Wahiawa association, Wahiawa series. Soils in this group are well-drained, developed in residuum and old alluvium derived from basic igneous rock. In a representative profile the surface layer is dusky red silty clay about 12 inches thick, the subsoil is dark reddish-brown silty clay that has a subangular blocky structure and about 48 inches thick. The underlying material is weathered igneous rock. Runoff is slow and the erosion hazard is no more that slight. Engineering interpretation of the Wahiawa series by the U. S. Department of Agriculture Soil Conservation Service include high shear strength, good load supporting capability, good permeability, and good slope stability.
D. Archaeology and Cultural Significance

The alignment of the proposed sewer follows along the shoulder of Kamehameha Highway and Whitmore Avenue which are located in pineapple fields or developed urban areas. Therefore, the sewer does not cross any virgin or undeveloped land and will not jeopardize any sites of historical or cultural significance. *Sites of Oahu* (Sterling and Summers, 1978) indicates no archaeological site on the project alignment. Also, there are no known sites listed nor any eligible sites for inclusion in the Hawaii/ National Registry of Historical Places (DLNR, 1987), in the project area.

E. Flora and Fauna

There are no endangered flora or fauna in the project area. A majority portion of the sewer alignment is just off the shoulder of Kamehameha Highway and Whitmore Avenue where there is no or little vegetation. The only vegetation that will be removed are the pineapples in the area displaced by the future pump station.

F. Utilities

There are existing water lines, sewer lines, telephone cables, electrical cables, gas lines and U.S. Army signal cables located under Whitmore Avenue, Kamehameha Highway and Kilani Avenue. The proposed
project will not interfere with these lines or any other existing utilities.

G. Land Use

The land use in the area is consistent with the State land use and Development Plan. The land in the project area north of Kaukonahua Stream with the exception of Whitmore Village and Kahi Kani, is zoned agricultural.

Sewer lines and wastewater pump stations are permitted uses in agricultural zoned lands. The future wastewater pump station is a Type A utility installation and is a principal permitted use in the Land Use Ordinance.

Preliminary discussion with Department of Land and Natural Resources indicates a State conservation land use permit is not required for this project since construction will not encumber the use of conservation land. However, during design, construction plans should be sent to the Department of Land and Natural Resources for final determination.

A Corps of Engineers Section 404 permit for this project is not required since no construction or fill will occur in the stream. However, if construction in Kaukonahua Stream were required, the construction is covered under a Section 404 nation wide permit currently in force.
III. ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

A. General

There are no rare or endangered flora or fauna in the area. The sewer alignment will be just off the shoulder of existing paved roads which have very little vegetation. The only vegetation to be affected is the pineapples removed from the area where the pump station is to be constructed. The sewer alignment just off the road shoulder also minimizes the amount of paved surfaces that has to be cut and replaced.

There are no historical or archaeological significant areas in the project area. However, if any archaeological sites are discovered, the State Historical and Preservation Officer shall be notified and all work suspended until the area has been studied and the appropriate measures implemented.

The sewer will not displace any families nor any commercial establishments and will not cause any hardship to the landowners and/or lessees.

The proposed project will not cause any major relocation of utility lines. A survey and the toning of all utility lines will be required prior to construction.

Most of the impacts associated with the proposed project are minor. The probable impacts on the environment resulting from this proposed project can be
divided into two categories:

1. The short term impacts, which are the impacts associated with construction activities; and

2. The long term impacts, which follow the construction period.

B. Short Term Impacts

Although all governmental regulations concerning construction will be adhered to, some short term effects associated with construction activities are anticipated. These short term effects are as follows:

1. The cost of this project is estimated to be $1,125,000 and will be funded by the City and County as part of a Capital Improvement Project.

2. There will be noise, exhaust and dust emissions resulting from the movement of construction materials and equipment.

3. There will be interference with normal traffic patterns on Whitmore Avenue, Kamehameha Highway, and Kilani Avenue due to construction activities.
4. During heavy rain some erosion will occur in areas cleared for construction and equipment access. This will be of concern during construction of the future pump station.

C. Long-Term Impacts

The long-term impacts of the proposed project are as follows:

1. The commitment of space taken by the underground pipeline will be a negligible adverse effect. The 10-inch siphon pipes crossing on the Karsten Thot Bridge will not be visible or affect the bridge's structural integrity.

2. The assurance that the sewer system serving the Whitmore Village tributary area has adequate capacity to serve the areas future needs is a beneficial effect.

3. Implementation of the Whitmore Village Small Community Facility Plan recommendation provides the most effective alternative for the management of wastewater flows from Whitmore Village.

4. Potential odors from the Whitmore Village Wastewater
Treatment Plant (WWTP) will be eliminated providing a positive benefit for Whitmore Village and other planned residential subdivisions in the area.

5. The Wahiawa WWTP will have to treat the wastewater presently treated at the Whitmore Village WWTP. However, the Wahiawa WWTP is capable of handling the increased flow without jeopardizing the treatment plant process.

D. Mitigation Measures Proposed to Minimize Impacts

Several conventional methods will be used to mitigate the adverse effects due to construction activities. Construction can be limited to normal daylight working hours, whereby, the Contractor will be required to comply with Section 26, Chapter 60, "Air Pollution Control" Chapter 43, "Community Noise Control for Oahu" and Chapter 42, "Vehicular Noise Control for Oahu", of Title 11, Administrative Rules of the Department of Health, State of Hawaii.

There will be some inconvenience for vehicular and pedestrian traffic during the construction period. Vehicular and pedestrian access will be maintained at all times. The Contractor will be required to comply with safety precautions and measures as prescribed in Part IV, "Traffic Controls for Highway Construction and
Maintenance Operations," of the "Manual on Uniform Traffic Control Devices for Streets and Highways", April 1980. Construction in the roadway area can be limited to the non-peak hours between 8:30 a.m. and 3:30 p.m., Monday through Friday. To avoid interference with the normal daytime activities, construction can be specified for night work, as an option, with the appropriate noise variance. All existing street improvements will be restored to original or better condition after installation of the sewer line is completed.

Private rights of way and driveways will be kept open at all times, unless the owners of the properties using these rights of way are otherwise provided for satisfactorily. Traffic to and from the private properties will be provided at all times and the Contractor will be required to minimize inconveniences to the property owners. All driveway approaches, and other private and public property improvements will be restored to original or better condition after the installation of the sewer line is completed.

Erosion will be reduced by minimizing the areas cleared for construction and vehicular access. Runoff will be diverted away from areas susceptible to erosion with temporary diversion ditches wherever possible.
IV. ALTERNATIVES TO THE PROPOSED ACTION

A. No Action

This alternative was the recommended solution in the Whitmore Village Small Community Facility Plan if the future wastewater flows stay below the capacity of the Whitmore Village Sewage Treatment Plant (WWTP). However, the expected increase of the future wastewater flows has made the proposed project the recommended solution. There will be no direct cost from doing nothing, but the Whitmore Village WWTP will be inadequate to serve the future population of the area.

B. Other Alignments

The facility plan has recommended Alternative No. 2b, "centralized treatment with abandonment of Whitmore Village WWTP" as the best solution. Other possible alignments are shown in Figure 6. Route 1 is the proposed project alignment and is the recommended alignment in the Facility Plan. Sewer and siphon alignment of Route 1 are predominately in the State right of way which minimizes the sewer easements that have to be acquired to construct the project. The only land that would have to be obtained is land for the future pump station. Route 1 would also eliminate the need for the Kahi Kani subdivision sewage pump station.
Other alignments are:

1. Route 2 - Route 2 is similar to Route 1 except that it initially traverses through a pineapple field instead of down Whitmore Avenue and intercepts Route 1 at the proposed upstream siphon manhole. Route 2 is shorter than Route 1 but would require a sewer easement through private property owned by Castle and Cooke, Inc. and George Galbraith Trust Estate. Additionally, the sewer line and manholes may be damaged by cultivation equipment during planting and harvesting operations. All other impacts of Route 1 also apply to Route 2.

2. Routes 3 - Route 3 begins in the vicinity of Whitmore Village WWTP, runs along the north bank of Kaukonahua Stream and crosses with an inverted siphon about 1,500 feet from the Whitmore Village WWTP, then along Cane Road and connects to the existing 18-inch relief sewer on Kilani Avenue. A sewage pump station would not be required with this route, however a sewer easement through private property will have to be acquired from Castle and Cooke, Inc. and George Galbraith Trust Estate. This route is primarily in private land and has the highest cost of the three
alternatives.

The crossing of the North fork of Kaukonahua Stream with a siphon will cause environmental problems. During construction of the siphon, silt from the bottom of the stream will become suspended, greatly increasing the turbidity of the water. This will be a temporary but adverse impact on aquatic life in the Wahiawa Reservoir.

The siphon will be located in the stream bed of Kaukonahua Stream and is subject to corrosion and washout by stream flow. Corrosion will eventually cause leaks in the pressurized siphon piping. A leak or rupture in the siphon will allow raw sewage discharges into the reservoir which will have an adverse impact on aquatic life. All other impacts of Route 1 would also apply to Route 3.
V. AGENCIES AND PERSONS CONSULTED

State of Hawaii:

Department of Health
Office of Environmental Quality Control
Department of Land and Natural Resources
Department of Business and Economic Development
Department of Transportation
University of Hawaii Environmental Center
University of Hawaii Water Resources Research Center
State Senator Gerald Hagino
State Representative Robert Bunda
Department of Agriculture
Office of State Planning

City and County of Honolulu:

Department of General Planning
Department of Land Utilization
Department of Transportation Services
Board of Water Supply
Honolulu Fire Department
North Shore Neighborhood Board #27
Department of Parks and Recreation
City Council Member Rene Mansho
Police Department
Department of Housing and Community Development
Wahiawa Neighborhood Board No. 26

Federal:

U.S. Army Corp of Engineers
U.S. Fish & Wildlife Services, Office of Environmental Services
U.S. Navy

Others:

Hawaiian Electric Co., Inc.
Hawaiian Telephone Co.
GASCO, Inc.
Waialua Sugar
Whitmore Community Association
Castle & Cooke, Inc.
George Galbraith Trust Estate
VI. DETERMINATION

The study of the project, the project site and the resulting environmental impacts indicate that the proposed project will not result in any significant long term adverse environmental impacts. Based on these findings, it is determined that this action to be a Negative Declaration to comply with regulations in Chapter 343, HRS, and that an Environmental Impact Statement is not required.
VII. REFERENCES


APPENDIX

COMMENTS FROM CONSULTED PARTIES

and

RESPONSES
The Honorable Sam Calajo, Director and
Chief Engineer
City and County of Honolulu
Department of Public Works
650 South King Street
Honolulu, HI 96813

Dear Mr. Calajo:

Subject: Environmental Assessment for Whitmore Village WTP
Diversion System HPF 90-216.

Thank you for the opportunity to comment on the above referenced Environmental Assessment. We have no comments at this time.

Sincerely,

[Signature]

Abdul Salar

[Position]

MENORANDUM

TO: SAN CALCEO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEG, DIRECTOR

SUBJECT: ENVIRONMENTAL ASSESSMENT (EA) FOR
WHITMORE VILLAGE WTP DIVERSION SYSTEM

We have reviewed the EA and have no comment to offer at this time. A Negligible Declaration appears to be appropriate for this action.

[Signature]

DONALD A. CLEG
Director of Land Utilization

DACS1
0530W/90
MEMORANDUM

To: Sam Calvo, Director & Chief Engineer
   Department of Public Works
   City & County of Honolulu

From: Deputy Director for Environmental Health

Subject: Environmental Assessment for Whitmore Village Wastewater Treatment Plan (WWTP) Disposal System

Thank you for allowing us to review and comment on the subject environmental assessment. The projected joint wastewater flow rate of the Wahawa WWTP and Whitmore Village is still under the ISP design capacity of the Wahawa WWTP. This makes the proposed centralization of the wastewater discharge acceptable. It should be noted that the Central Oahu wastewater disposal problem (i.e., Wahiaha Sugar issue) still exists and must be resolved.

BRUCE S. ANDERSON, PH.D.
Honorable Sam Caliseo

Dear Mr. Caliseo,

Subject: Environmental Assessment for Whitesore Village WTP Diversion System

Thank you for giving our Department the opportunity to comment on this matter. We have reviewed the materials you submitted and have the following comments.

Although the figure was not given in the Environmental Assessment, the Wahiakea Water Treatment Plant is currently thought to process about 1.5 mgd of sewage. The added 0.2 mgd is not very significant. At present, effluent from the Wahiakea plant is discharged into the lower South Fork of the Wahiakea Reservoir, and effluent from the Whitesore plant is discharged into the upper North Fork. We would prefer to see this separation continue, even though the processing in the Wahiakea plant would be of higher quality compared to Whitesore. However, the benefits of this action to the reservoir environment would be minor and may not override the probable cost savings from unification of the plants.

We question the need for the diversion at the present time, if the Wahiakea plant is scheduled for shutdown (within five years as claimed) with the sewage from the Wahiakea area piped to Honolulu or to Waianae/Waianae for treatment. If a decision is made to move the sewage to the north side of Oahu, a different diversion route from Whitesore Village might be preferable.

If the diversion system is constructed, measures should be taken to assure that debris is not discarded into the Wahiakea Reservoir.

We appreciate the opportunity to review the construction plans prior to any work to ensure compliance.

If you have any questions, please call me or Cathy Tilton at our Office of Conservation and Environmental Affairs at 548-7637.

Very truly yours,

William W. Paty

cc: DAR, Historic Preservation Program
August 24, 1990

Mr. William Paty

Construction documents will be sent to your department for review.

Very truly yours,

[Signature]

For San Calendar
Director and Chief Engineer

cc: Ewok Associates, Inc.

Mr. William Paty, Chairman
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Hilolulu, Hawaii 96809

Subject: Your letter of July 20, 1990 (File: 90-769)

Dear Mr. Paty:

We appreciate your comments on the proposed project. Continued use of Whitmore Village WTP will require expansion of the existing treatment facility to meet projected wastewater flows from the Whitmore Village area and the Naval Communications Station. Consolidation of treatment at Wahiawa WTP will provide savings in maintenance and operation costs.

There are no plans to abandon Wahiawa WTP but a study has been initiated for diversion of Wahiawa WTP effluent from the Wahiawa Reservoir.

Construction documents for the Whitmore Village WTP diversion system will include environmental protection provisions to prevent fuel or toxic chemical release into the reservoir, and control debris disposal and silt runoff into the reservoir.
Mr. Sam Collejo  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
400 S. King Street  
Honolulu, Hawaii 96813

Dear Mr. Collejo:

The North Shore Neighborhood Board received on  
June 5, 1990, a letter from your department dated May  
31, 1990, regarding Environmental Assessment for  
Whitmore Village WTP Diversion System. The deadline  
for comments is June 21, 1990.

At a Board meeting on May 22, 1990, we elected  
officers for the year 1990-91. As the new chairman, I  
have just recently completed assigning the members to  
Board committees.

In order to thoroughly assess the aforementioned  
project and its impacts, I am requesting an extension  
for comments to July 12, 1990. This will give the Public  
Works, Housing and Community Improvement Committee chairperson and members adequate time to review and present  
its recommendations to the Board at its next meeting on  

Your consideration and approval of this request  
will be greatly appreciated.

Sincerely,

James L. Awa, Jr.  
Chairman

Mr. James L. Awa, Jr.  
Chairman  
North Shore Neighborhood Board No. 27  
P.O. Box 607  
Kailua, Hawaii 96747

Dear Mr. Awa:

Subject: Environmental Assessment for  
Whitmore Village WTP Diversion System

We approve your request for an extension of time to July 12, 1990  
to comment on the environmental assessment.

If there are any questions, please call the Planning Section of  
The Division of Water Management at 523-4531.

Very truly yours,

C. Michael Steed  
Director and Chief Engineer
Mr. Sam Callejo
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 S. King Street
Honolulu, Hawaii 96813

Subject: Environmental Assessment for Whitmore Village WTP
        Diversion System

Dear Mr. Callejo:

At our Board meeting on June 26, 1990, members of the Northshore
Neighborhood Board and members of the Northshore community requested
for more time to assess this subject issue.

Many concerns regarding this project were brought to the attention
of Board members. Because of question mark answers to these concerns,
the Board is requesting another extension for comments to August 1,
1990.

Your consideration and approval of this request will be greatly
appreciated.

Sincerely,

[Signature]

James L. Auei, Jr.
Chair

Mr. James L. Auei, Jr.,
Chair
North Shore Neighborhood Board No. 27
P.O. Box 607
Haleiwa, Hawaii 96712

Dear Mr. Auei:

Subject: Environmental Assessment for Whitmore Village
        WTP Diversion System

We have reviewed your request for another extension of time and
will allow you to submit your comments by August 1, 1990 for
consideration.

If there are any questions, please call the Planning Section of
the Division of Wastewater Management at 523-4653.

Very truly yours,

C. Michael Stewart
Director and Chief Engineer
Mr. Sam Callejo
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Environmental Assessment for Whitmore Village WTP Diversion System

Thank you for your letter of May 31, 1990, requesting our review of the subject Environmental Assessment.

We found a discrepancy between the EA and the construction plans (which were undergoing a separate review) in the routing of the two ten-inch siphon pipes that will be installed under the Karsten Thot Bridge. According to the EA, the siphon pipes would be under the existing sidewalk while the construction plans show them under the centerline of the bridge.

Very truly yours,

Edward Y. Hirata
Director of Transportation

Mr. Edward Hirata
Department of Transportation
State of Hawaii
869 Punchbowl St.
Honolulu, Hawaii 96813

Dear Mr. Hirata:

Subject: Your Letter of June 25, 1990 (HIV-90 P.22368)
Concerning the Environmental Assessment for the Whitmore Village WTP Diversion System

We appreciate your comments on the proposed project. The location of the siphon pipes in the construction drawings will be relocated and placed under the walkway of the Karsten Thot bridge as shown in the Environmental Assessment.

Very truly yours,

SAM CALLEJO
Director and Chief Engineer

Cc: Knook Associates, Inc.
MEMORANDUM

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF TRANSPORTATION SERVICES

FROM: ALFRED J. THIIDE, DIRECTOR
DEPARTMENT OF PUBLIC WORKS

SUBJECT: WEMMORE VILLAGE WATE DIVERSION SYSTEM
ENVIRONMENTAL ASSESSMENT
TM-2-01-22

This is in response to your memorandum dated May 21, 1990 for our review and comments on the subject project.

On page 21, line 18, the words "and public" should be inserted after the word private.

Construction plans for work along city streets should be submitted to our department for review.

Should you have any questions, please contact Wayne Nakamoto of my staff at 523-4180.

June 27, 1990

MEMORANDUM

TO: MR. ALFRED J. THIIDE, DIRECTOR
DEPARTMENT OF TRANSPORTATION SERVICES

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

SUBJECT: YOUR MEMORANDUM OF JUNE 27, 1990 CONCERNING THE WEMMORE VILLAGE WATE DIVERSION SYSTEM,
WAINANA, OAHU, HAWAII
TM-2-01-22

We appreciate your comments on the proposed project. Your comments regarding public rights of way will be added to the Environmental Assessment. Construction plans for work along city streets will be submitted for review to your department.

July 25, 1990

cc: Kwock Associates, Inc.
Planning Division

Mr. Sam Callejo
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
658 South King Street
Honolulu, Hawaii 96813

June 27, 1990

Dear Mr. Callejo:

Thank you for the opportunity to review the Environmental Assessment (EA) for Whitmore Village WTP Diversion System, Wahina, Oahu, Hawaii. The following comments are offered:

A. Since the sewer line would be suspended over the North Fork of Kaukonahua Stream, a department of the Army permit is not required.

B. According to the Flood Insurance Study for the City and County of Honolulu, the proposed improvements are located in Zone D, areas in which flood hazards are undetermined.

Sincerely,

Kiauk Cheung
Director of Engineering

July 25, 1990

Mr. Kiauk Cheung
Director of Engineering
U.S. Army Engineer District, Honolulu
Building 230
Pt. Shafter, Hawaii 96850-5440

Dear Mr. Cheung:

Subject: Your Letter of June 27, 1990 Concerning the Environmental Assessment for the Whitmore Village WTP Diversion System, Wahina, Oahu, Hawaii

We appreciate your comments on the proposed project. Flood proofing of buildings subject to flood hazard will be considered during design.

Very truly yours,

[Signature]

cc: Keck Associates, Inc.
TO:  SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM:  HAROLD KAWASAKI, CHIEF OF POLICE  
HONOLULU POLICE DEPARTMENT

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR WHITMORE VILLAGE WTP DIVERSION SYSTEM

We have reviewed the environmental assessment for the above-referenced project and have no objections to the proposal.

We can, however, anticipate traffic problems as a result of the construction activities on main roadways. We recommend that special duty officers be hired to minimize traffic problems during the construction period.

Thank you for the opportunity to provide comments.

HAROLD KAWASAKI  
Chief of Police

JOSEPH AVEIRO  
Assistant Chief of Police  
Support Services Bureau

MEMORANDUM

TO:  MR. HAROLD KAWASAKI, CHIEF  
HONOLULU POLICE DEPARTMENT

FROM:  SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

SUBJECT: YOUR MEMORANDUM OF JUNE 19, 1990 CONCERNING THE ENVIRONMENTAL ASSESSMENT FOR THE WHITMORE VILLAGE WTP DIVERSION SYSTEM, MARIANA, OAHU, HAWAII  

We appreciate your comments on the proposed project. Your comments regarding traffic control and special duty officers will be incorporated into the construction documents.

SIGNED  
SAM CALLEJO  
Director and Chief Engineer

CC: Ewok Associates, Inc.
MEMORANDUM

TO: SAM CALLEDO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: KAZU HAYASHI, MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY

SUBJECT: YOUR MEMORANDUM OF JUNE 14, 1990 CONCERNING THE ENVIRONMENTAL ASSESSMENT FOR WHITMORE VILLAGE WWTP DIVERSION SYSTEM,  
HANAIWA, OAHU, HAWAII  
TDD: 7-81-02

We appreciate your comments on the proposed project. Construction plans will be sent to the Board of Water Supply for review and approval.

SAM CALLEDO  
Director and Chief Engineer

CC: Knock Associates, Inc.
July 25, 1990

Mr. Joe Calle's
Director and Chief Engineer
Department of Public Works
City of Honolulu
650 Kapiolani Blvd
Honolulu, Hawaii 96813

Dear Mr. Calle:

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR WHITMORE VILLAGE WTP DIVERSION SYSTEM

Thank you for the opportunity to comment relative to the proposed Whitmore Village WTP Diversion System.

I have no objections to the proposed project if the proposed Route 1 is used. However, I would object if the proposed Routes 2 or 3 are being considered.

Also, should there be any concerns from either the Whitmore Community Association or the Kahala or North Shore Neighborhood Boards, then I would respectfully request that an environmental impact statement be required.

Again, thank you for this opportunity to review the proposed project and to make comments.

Sincerely,

Semo Nansho
Majority Floor Leader

The Honorable Semo Nansho
Councilmember
Majority Floor Leader
City Council
City and County of Honolulu
Hawaii, Hawaii 96813

Dear Councilmember Nansho:

SUBJECT: Your letter of June 8, 1990 concerning the Environmental Assessment for the Whitmore Village WTP Diversion System

We appreciate your comments on the proposed project. Route 1 has been selected for implementation. We will be available to answer any concerns the neighborhood boards may have regarding this project.

Very truly yours,

Joe Calle
Director and Chief Engineer

CC: Kwock Associates, Inc.
Managing Director
MEMORANDUM

TO: MR. LESLIE E. CAMARA, FIRE CHIEF
    HONOLULU FIRE DEPARTMENT
FROM: SAN CALLED, DIRECTOR AND CHIEF ENGINEER
      DEPARTMENT OF PUBLIC WORKS
SUBJECT: YOUR MEMORANDUM OF JUNE 14, 1990 CONCERNING
        THE ENVIRONMENTAL ASSESSMENT FOR THE
        WIMPORE VILLAGE WTP DIVERSION SYSTEM,
        WAIKIKI, OAHU, HAWAII
        TAX: 7-02-02

We appreciate your comments on the proposed project. Access for
fire apparatus water supply and building construction will be in
accordance with existing fire codes and standards.

SAN CALLED
Director and Chief Engineer

CC: Knock Associates, Inc.
Mr. Sam Calleo
Director and Chief Engineer
Division of Water Resources Management
City and County of Honolulu
650 South King Street
Honolulu, HI 96813

May 6, 1990

Mr. William A. Bonnet
Hawaiian Electric Company, Inc.
P.O. Box 2750
Honolulu, Hawaii 96820

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

Mr. Calleo:

Subject: Environmental Assessment for Whitmore Valley WWTP

We have reviewed the subject EIS and have several comments. HECO has existing underground and overhead power lines within the proposed limits of construction. HECO requests that the following notes be subject to consideration during the development of the final construction plans:

1. The Contractor is to exercise extreme caution when the excavation and construction crosses or is in proximity to HECO facilities.

2. When excavation is adjacent to or under existing facilities, the Contractor is responsible for properly sheeting and bracing the excavation and stabilizing the existing ground to render it safe and secure from possible slides, cave-ins, and settlement, and for properly supporting existing facilities with beams, struts, or underpinning to fully protect these from damage.

3. Should it become necessary, any work required to relocate HECO facilities shall be done by HECO. The Contractor shall be responsible for all costs and coordination.

4. The Contractor shall be liable for any damages to HECO facilities, and shall report any damages immediately to HECO's Trouble Dispatch at 543-7874.

Sincerely,

[Signature]

Annex Company

August 2, 1990

Mr. William A. Bonnet
Hawaiian Electric Company, Inc.
P.O. Box 2750
Honolulu, Hawaii 96820-0001

Subject: Your Letter of July 6, 1990 Concerning the Environmental Assessment for the Whitmore Valley WWTP Diversion System

We appreciate your comments on the proposed project. The construction plans will be sent to Hawaiian Electric Co. for review and the appropriate notes will be included in the construction drawings.

Very truly yours,

[Signature]

SAM CALLEJO
Director and Chief Engineer

cc: Rough Associates, Inc.
MEMORANDUM

TO: SAM CALLADO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

FROM: BENJAMIN B. LEE, CHIEF PLANNING OFFICER
DEPARTMENT OF GENERAL PLANNING

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED WHITMORE VILLAGE WTPP DIVERSION SYSTEM

June 20, 1990

The Department has reviewed the above referenced Environmental Assessment (EA) for the proposed sewage diversion project and offers the following comments:

1. The project is consistent with the policies and objectives of the General Plan.

2. The project apparently supersedes the Whitmore Village Sewage Treatment Plant Modification and the Whitmore Village Effluent Diagonal System projects which are currently identified on the Development Plan Public Facilities (DPPP) Map for Central Oahu. In addition, the project appears to be related to the Whitmore Saver Pump Station and Force Main project which is also identified on the DPPP Map. It seems likely that a DPPP Map amendment would not be required, however, further coordination between this department and the Department of Public Works is necessary prior to a final determination.

3. It is noted that the EA states that the project will disturb a minimum of existing vegetation. Prompt replacement of any trees or groundcover unavoidably removed will serve to reduce soil erosion and maintain the aesthetic quality of the area.

Based on the review of this request, the department would not object to a Negative Declaration for this project.

Benjamin B. Lee
Chief Planning Officer
MEMORANDUM

TO:  MR. BENJAMIN B. LEE, CHIEF PLANNING OFFICER
      DEPARTMENT OF GENERAL PLANNING

FROM:  SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
      DEPARTMENT OF PUBLIC WORKS

SUBJECT: YOUR MEMORANDUM OF JUNE 20, 1990
CONCERNING THE ENVIRONMENTAL ASSESSMENT
FOR THE WHITEPOLE VILLAGE WTP DIVERSION SYSTEM,
MARINA, OAHU, HAWAII
TIME: 7-10-90

We appreciate your comments on the proposed project. Further
coordination with your department will be maintained throughout
and including the processing of the negative declaration.

The construction documents will require minimization of exposed
areas to reduce soil erosion and prompt replacement of trees and
vegetation removed during construction.

SAM CALLEJO
Director and Chief Engineer

CC: Wack Associates, Inc.
Mr. Sam Callejo  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King St.  
Honolulu, Hawaii 96813

Dear Mr. Callejo:

In response to your letter UPP 90-334 of May 31, 1990, we have no comments on the Environmental Assessment for the Wilshire Village Wastewater Treatment Plant Diversion System.

We appreciated the opportunity to review the assessment.

Sincerely,

[Signature]

[Name]

Director  
United States

Mr. Sam Callejo  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

July 10, 1990  

Dear Mr. Callejo:  

Subject: Environmental Assessment for Wilshire Village WTP Diversion System

We have reviewed the Environmental Assessment for the Wilshire Village Wastewater Treatment Plant (WTP) Diversion System and have no comments to offer at this time.

Thank you for the opportunity to comment.

Sincerely,

[Signature]  

[Name]  

Director
June 13, 1990

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

FROM: WALTER M. OSAMA, DIRECTOR
DEPARTMENT OF PUBLIC WORKS

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR WHITMORE VILLAGE WASTE
WATER TREATMENT PLANT DIVERSION SYSTEM
LOCATION: KAMEHAMEHA HIGHWAY AND WHITMORE AVENUE
TAX MAP KEY: 7-01-1 (ref. no. WPP 90-339)

We have reviewed the Environmental Assessment for Whitmore Village Waste Water Treatment Plant Diversion and have no
comment to offer at the present time.

should you have any questions, please feel free to contact
Lester Lai of the Executive Policy Planning Unit at extension 6206.

WALTER M. OSAMA, DIRECTOR

June 12, 1990

Ref. No.: WPP 90-339

Mr. Sam Callejo
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Subject: Environmental Assessment for Whitmore Village WTP Diversion System

We wish to inform you that we have no comments to offer on the subject
environmental impact statement.

Thank you for the opportunity to review the document.

Sincerely,

for Roger A. Uweling

RWU/M/RW/RF
MEMORANDUM

TO:        San Callejo, Director and Chief Engineer
            Department of Public Works

FROM:  Michael N. Scarfone

SUBJECT: Environmental Assessment
         Whitmore Village WTP Diversion System

We appreciate the opportunity to review the subject environmental assessment. The Department has no comments to offer at this time.

Thank you for the opportunity to comment.

MICHAEL N. SCARFONE
Director

June 29, 1990

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June 6, 1990

City and County of Honolulu
Department of Public Works
650 South King Street
Honolulu, Hawaii 96813

Attention: Mr. San Callejo
Director and Chief Engineer

Gentlemen:

Subject: Environmental Assessment for Whitmore Village WTP Diversion System

In response to your letter WTP 90-346 dated May 31, 1990, we have reviewed the subject project. Currently there are no gas utility facilities within the project area. We have no further comments regarding the proposed WTP diversion system.

Should there be any questions, or if additional information is desired, please call us at 347-3274.

Very truly yours,

ELIHAU M. SABA
Manager, Engineering

INSIDE