Appendix K.1C

Forest Lake Reservoir Phase II Improvements

1997 County of Monterey Negative Declaration for use permit for Forest Lake Reservoir and emergency outlet concrete structure under Sawmill Gulch

received 7-21-97

FILED

JUL 17 1997

BRUCE A. REEVES
MONTEREY COUNTY CLERK
_____ DEPUTY

County of Monterey
State of California

NEGATIVE DECLARATION

RESPONSIBLE AGENCY:	MONTEREY COUNTY PLANNING AND BUILDING INSPECTION DEPARTMENT
DECISION MAKING BODY:	Planning Commission
PROJECT:	Pebble Beach Community Services District/Cal-Am/Monterey Peninsula Country Club
ADDRESS:	Forest Lake Reservoir (Lopez and Colton Road), Monterey Peninsula Country Club, Del Monte Forest Saw Mill Gulch (Colton Road), Monterey Peninsula Country Club, Del Monte Forest
CITY/STATE/ZIP:	c/o Parsons Engineering Science 666 Camino Aguajito, Suite 202 Monterey, CA 93942
PLANNER:	Gonzalez TELEPHONE: 408/755-5025

THIS PROPOSED PROJECT WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT AS IT HAS BEEN FOUND:

(a) That said project will not have the potential to significantly degrade the quality of the environment.
(b) That said project will have no significant impact on long term environmental goals.
(c) That said project will have no significant cumulative effect upon the environment.
(d) That said project will not cause substantial adverse effects on human beings, either directly or indirectly.

PROJECT DESCRIPTION OF NATURE, PURPOSE AND BENEFICIARIES:

Use Permit for the improvement and expansion of existing Forest Lake Reservior for the treatment and open storage of reclaimed water; Forest Lake project scope includes liner and under drain system, inlet and outlet structures, buried piping, gravel access road, tree removal (42); Design Approval. Saw Mill Gulch project scope includes: Use permit for emergency outlet concrete structure; Design Approval.

PROJECT LOCATION: Forest Lake Reservoir: Parcel 1, Block 115, Monterey Peninsula County Club No. 5, Tract 514, Del Monte Forest Area, fronting on and northerly of Lopez Road, fronting on southerly of Colton Road.
Saw Mill Gulch: Park Lot 10, Block 47, Monterey Peninsula Country Club, Del Monte Forest Area, fronting on and northerly of Colton Road.

TIME PERIOD PROVIDED FOR REVIEW:
BEGINS: 07/17/97 ENDS: 08/16/97

ADDRESS WHERE COPY OF APPLICATION AND INITIAL STUDY ARE AVAILABLE:
MONTEREY COUNTY PLANNING & BUILDING INSPECTION DEPARTMENT
COURTHOUSE/P.O. BOX 1208
240 CHURCH STREET
SALINAS, CALIFORNIA 92901

TO BE FILED WITH COUNTY CLERK WHEN NO SIGNIFICANT EFFECT IS FOUND:
NEG DEC. DATE FILED: 07/17/97
FILE REFERENCE: 965447 TYPE: Planning Commission

received
1-21-97

"ATTACHMENT A"

PHASE II- CAWD/PBCSD WASTEWATER RECLAMATION PROJECT

File No. 965447

Owner Name: Cal-Am Water Co., Monterey Peninsula Country Club

Permit Applicant: Pebble Beach Community Services District
C/O Parsons Engineering Science
666 Aguajito Suite 202
Monterey, CA 93942

Assessor's Parcel No's: 007-491-001-000 and 007-371-012-000

Note: The project scope has been reduced.
The initial study includes scope of work for the following areas: Forest Lake Reservoir, Forest Lake Treatment Facility, Sawmill Gulch Emergency Outlet Structure, Pacific Grove Transmission Pipeline Extension, Irrigation System Modifications to the Pacific Grove Golf Course and El Carmelo Cemetery.

The project has been cut back. Project is now limited to Forest Lake Reservoir Modifications and Monitoring (Section 1.3.1), Forest Lake Treatment Facility (Section 1.3.2), and Sawmill Gulch Emergency Outlet Structure (Section 1.3.3).

The Pacific Grove Transmission Pipeline Extension (Section 1.3.4) and Irrigation system Modification to the Pacific Grove Golf course and El Carmelo Cemetery (Section 1.3.5) are no longer part of this project.

Project Description

Forest Lake Reservoir Modifications and Monitoring

Forest Lake project scope includes liner and under drain system, inlet and outlet structures, buried piping, gravel access road, and tree removal (42).

Forest Lake is an existing man-made reservoir formed by excavation and embankments (levees) on the northeast and southwest sides. Forest Lake has been used as a potable water supply for the Monterey Peninsula for more than 75 years. Its use as a potable water storage reservoir was recently discontinued by Cal-Am and replaced by two existing and one proposed and approved 5 M.G. steel storage tanks located just northwest of Forest Lake. The reservoir has a maximum design capacity of 438 AF and a surface areas of 18.4 acres at maximum storage.

Previous studies for the stability of the Forest Lake Reservoir embankments have been conducted at the request of the California Department of Water Resources Division of Safety of Dams (DSOD). The DSOD has determined that the existing reservoir embankments, in their present condition, may be unstable during a seismic event. The following modifications meeting DSOD requirements are planned to be made to the existing Forest Lake Reservoir to enable it to be used as a reclaimed water storage facility.

1. A lining and underdrain system would be developed and constructed. This system includes subgrade preparation consisting of the removal and disposal of approximately 3,500 cubic yards of riprap, 10,000 cubic yards of unusable soil and scarifying and regrading of the reservoir bottom. Excavation and rough grading are also required for the south side of the reservoir.

   A hypalon liner having an earthen color tone would be used and would cover the complete surface area of the reservoir bottom and interior surface of the embankments. A prefabricated plastic drain blanket known as a Miradrain would also be installed under the hypalon liner. The underdrain system would collect reclaimed water coming from leaks, should they occur in the liner system, and any localized groundwater accumulation. The water surface of the reservoir would be open to the atmosphere.

2. A 12-foot wide gravel access road would be constructed on the top of the reservoir embankment around the entire perimeter. An existing fence prohibits access to prevent people, animals and debris (e.g., windblown leaves, paper, etc.) from entering the reservoir. The access road and fence replace similar existing improvements.

3. A new emergency outlet/plant intake structure and appurtenances would be constructed. The plant inlet portions of this structure would enable the stored water to be removed from varying levels of the reservoir and thereby optimize the quality of water being conveyed to the Forest Lake Treatment Facility. The emergency outlet portions of this structure would allow for complete draining of the reservoir, and would be designed to drain 210 acre feet of water (50 percent of the reservoir storage capacity) within seven days, as required by the DSOD. The emergency outlet portions of this structure would also serve as an overflow structure in the event controls on the discharge to the reservoir fail to operate as intended.

4. A new overflow/drain pipeline and connection to an existing California-American Water Company (Cal-Am) overflow pipeline would be provided.

5. A temporary construction access road would be constructed to provide heavy earthwork equipment access from Lopez Road, in order to minimize traffic impacts on the adjacent residential areas.

   A 36-inch pipeline, concrete encased, would be constructed under the reservoir embankment. This pipeline would extended from the emergency outlet structure about 360 feet to a manhole that provides a connection to an existing 24-inch pipeline. This 24-inch pipeline is an overflow and drain line for the Cal-Am water storage tanks on the adjacent property. The existing 24-inch Cal-Am drain line discharges above Sawmill Gulch Creek.

Forest Lake Treatment Facility

A treatment plant would be provided at Forest Lake Reservoir to remove algae from reclaimed water stored in the reservoir before it is placed back into the distribution system. Algal growth could impact the operation of the existing and proposed irrigation systems. The treatment facility consists of a physical/chemical plant to remove algae and provide residual chlorine. Anticipated algae blooms in the open reservoir and the dissipation of residual chlorine resulting from prolonged storage require the stored water to be treated.

Portions of the existing Cal-Am pressure filter plant located adjacent to the reservoir would be used as part of the treatment process. Treatment processes include straining filtration, disinfection, pH and alkalinity adjustment, copper sulfate addition, and backwash water settling.

An upgraded pump station would be required at the reservoir treatment plant to lift the stored water to the distribution system storage tank. The treatment plant and pump station would be located immediately adjacent to the north embankment of the reservoir and the existing Cal-Am steel water storage tanks.

Sawmill Gulch Emergency Outlet Structure

The outlet of the existing 24-inch Cal-Am overflow/drain line currently terminates with a flap gate on a steep slope above Sawmill Gulch Creek just north of Congress Road. A scour hole has been created in the hillside. This pipeline would be extended about 125 feet to Sawmill Gulch Creek, which has a flatter gradient and adequate channel capacity to handle emergency releases. An energy dissipation structure would be constructed at the new outlet, which has been located in the MPCC grass mulching and wood chipping yard. The Phase II Reclamation Project requirements include an emergency discharge pipeline, which would be designed to deliver flows to Sawmill Gulch Creek. The energy dissipation structure would be constructed to prevent these flows from causing erosion to Sawmill Gulch Creek.

Sawmill Gulch Creek would be modified to accommodate potential emergency releases from the reservoir to meet drainage requirements of the DSOD. The cross section of the creek would be lined from bank-to-bank with riprap upstream and downstream in the area of the energy dissipation structure to prevent erosion.

Present Land Use/Zoning/General Plan:

Forest Lake Reservoir is currently not in use. Forest Lake Reservoir is zoned "O-D-S" (Open Space, Design District, Site Plan Review District).

The Sawmill Gulch parcel is currently used as a mulching and chipping yard. This parcel is zoned "O-D-S" (Open Space, Design District, Site Plan Review District).

Property Description

Forest Lake Reservoir

Parcel 1, Block 115, Monterey Peninsula Country Club No. 5, tract 514, Del Monte Forest Area, fronting on and northerly of Lopez Road, fronting on and Southerly of Colton Road.

Sawmill Gulch

Park Lot 10, Block 47, Monterey Peninsula Country Club, Del Monte Forest Area, fronting on and northerly of Colton Road.