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PROJECT REPORT EVALUATION

SAN MATEO MID-COASTSIDE CONSOLIDATION (TREATMENT FACILITIES)
Name of Project

1. Date of Review: APRIL 1976 Estimated Cost 6.157 million (HMB outfall

2. Applicant: SEWER Authority Mid-Coastside EPA Evaluator Bill Helphingstine

3. Address: 501 MAIN ST HALF MOON BAY, CAL. State Evaluator GIL WHEELER

4. Applicant's Engineer: MAX Burchett

Address: 3730 MT. DIABLO BLVD, LAFAYETTE, CAL 94549

Telephone No. 415-284-2980

5. Project Location: HALF MOON BAY Treatment FACILITY AND the GRANADA & Montara vicinity located on the Pacific Coastside approximately 30 miles south of the City of San Francisco.

6. County: SAN MATEO Regional BD.# 2 Project Engineer MAX. Burchett

7. Congressional District: DISTRICT 11 Project Number: C-06-1023

8. Applicant's Representative: Fred Mortensen, MANAGER, City of HALF MOON B

Address & Telephone: 501 MAIN ST, HALF MOON BAY, CAL 415-726-55

Existing Problems: Effluent discharges to two prohibited areas discharge of primary effluent, discharge of toxic effluent containing Cl_2 residue inefficient operation of three facilities by the three separate communities

9. Purpose & Description of Project: Purpose of project is to provide a subregional solution to the mid-coastside wastewater problems. The project involves modification of the existing H.M.B. facility to a permanent 2 mgd facility, construction of interceptors from Montara and Granada to H.M.B., and construction of an ocean outfall for the Montara and Granada treated effluent.

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10. Is this project in an area of Planning problem: yes

a. Relationship to current Basin Plans: this project reflects the Basin plan recommendations

b. To other Planning (local, 208, 303e): ABAG is the designated 208 planning agency

c. Service area: Service area generally includes the urbanized area of HALF MOON Bay, Granada, Montara, and MOSS Beach.

11. Method of effluent Disposal

a. Receiving Waters: Pacific Ocean.

b. Description of Discharge Point: Depending on the results of the Oceanographic study to be released in November 1976, the discharge point will be in Half Moon Bay off Pilarcitos Creek or off Miramontes Point

c. Land Application: No land application disposal will be used for the effluent. It is not a cost effective disposal technique.

d. Reclamation: A local golf course has expressed a desire to purchase effluent for irrigation purposes.

e. Discussion of Water Quality Standards, NPDES permit, Discharge Requirements and Beneficial Uses of Receiving Waters: Secondary treatment is required for all effluent. Beneficial uses of Pacific Ocean are ① recreation ② preservation of fish and wildlife ③ industrial water supply ④ esthetic enjoyment ⑤ Irrigation. NPDES permit # 72-96 requires secondary treatment, no ocean disposal within 1000 feet from low water mark, 100 to 1 dilution, and 0 mg/l chlorine residual.

f. Ultimate Sludge Disposal: Dried sludge is stockpiled at plant site for one year and then all dried sludge is used by gardeners for soil enrichment. The sludge disposal method will also be utilized in the new plant.

12. Discussion of Alternatives: Basic alternatives were ① no project ② construction of 3 separate STP with a consolidated outfall ③ construction of a single consolidated treatment facility for the joint powers agency and a consolidated outfall.

a. Cost Effective Analysis of Alternatives: The "no project" alternative would allow a bad environmental situation to continue and was judged unacceptable. The total present worth of alternatives ② and ③ were 8.069 million and 7.650 million, respectively. Although there was no significant environmental difference between alternative ② and alternative ③ (full consolidation) is considered to be more reliable. The full consolidation

alternative was considered to be the most cost effective alternative considering both economic and environmental factors.

b. Design Criteria (include flows): Eligible design flow for the treatment facility is 1.3 mgd for a 1987 design flow (ADWF). The eligible capacitys of the Montara to Granada & the Granada to HALF MOON Bay interceptors are 1.91 and 3.46 mgd respectively. The eligible capacity for the Montara & Granada outfall is 3.46 mgd PWWF.

13. Discussion of Population Projection: The most recent State DOF projection has the following figures; 1976: 11578, 1987: 13,832, 1997: 14,795. Note that these are the E-O figures that the eligible project will be based on.

14. Plant Reliability: The consolidated facility will be of a modern permanent design and will be staffed by licensed personnel. In addition standby power will be provided so that no service interruption will occur if a local power outage occurs.

15. Flood Hazard: The site is presently protected by a dike for the 100 year flood level from near-by Pilarcitos Creek

16. Infiltration/Inflow: The I/I analyses performed on each of the three collection systems showed existing I/I to be non-excessive.

17. By Pass Analysis: No by-passing will be allowed. Plant will be equiped with standby pumps and back-up power source.

18. Industrial Waste: There is no industrial waste contribution to the collection system

a. Industrial Dischargers: N/A

b. Pre-Treatment Requirements: All three communities will be required to submit an approvable sewer use ordinance.

c. Industrial Cost Recovery program: not required

d. Letters of intent: not APPLICABLE

19. System of User Charges: Will be included in the required revenue program prior to concept approval. As required by Federal regulations, O&M and replacement costs will be payed by a user service charge. The capital costs of the facility will be payed thru advalorem taxes. The principal portion of the capital recovery mechanism may be payed from the W.C.R.F. which is collected from a user service charge.

20. Sewer Use Ordinance: Approved sewer use ordinances will be adopted before completion of construction

21. Personnel: The facility will be operated according to the regulations of the SWRCB which specifies the grade of operator necessary for an activated sludge plant.

22. Financial Capability: based on incremental costs, the grant will be ≈ 68%

a. Local Share: approx. $1,941,000 based on incremental costs

b. Related Construction: none

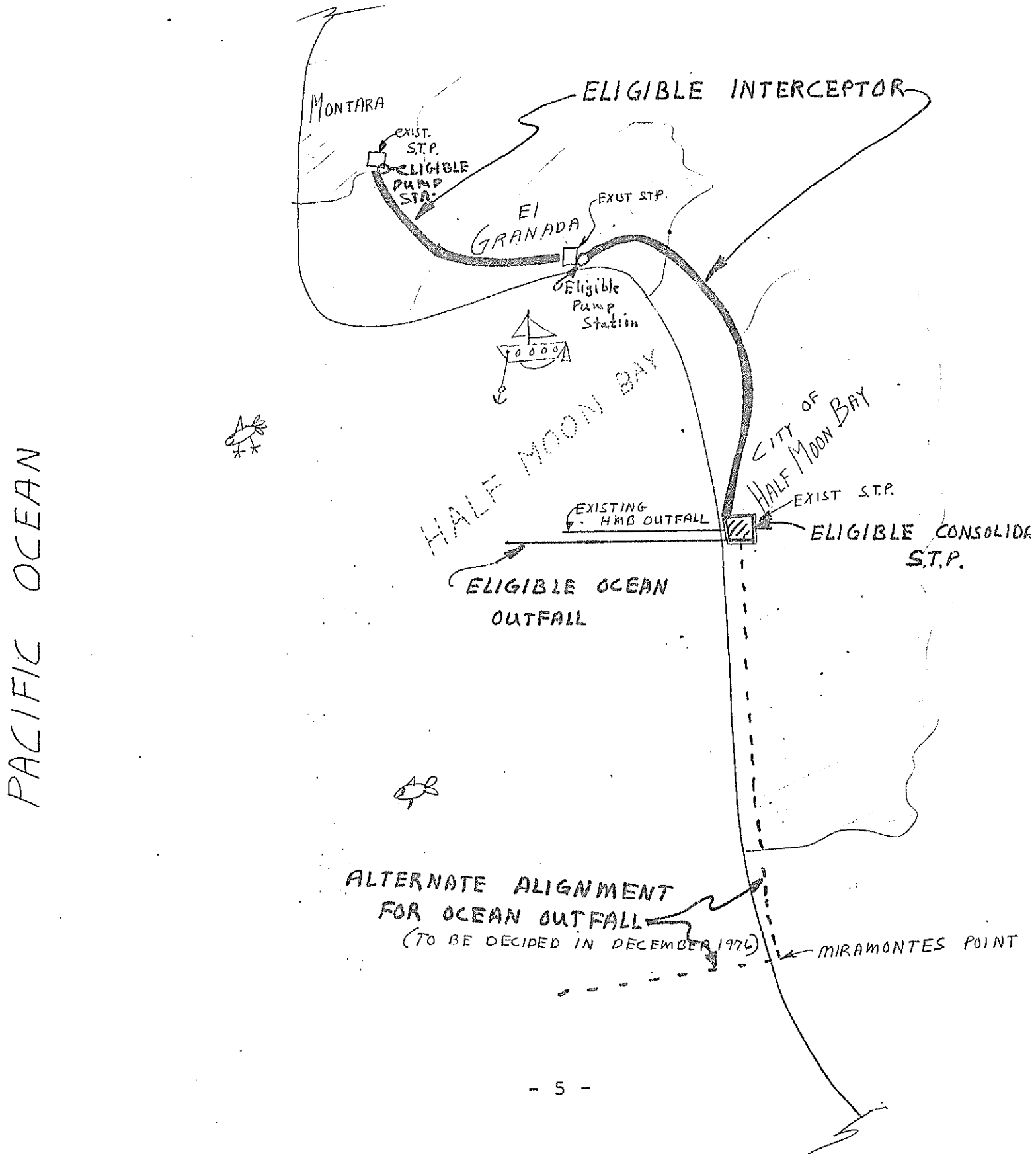
c. Revenue Program: will provide for collection of O&M fees, replacement fees, and capital recovery costs

23. Compliance with National Historic Preservation Act of 1966: SHPO has approved with conditions the survey of the project area. Additional archeological work is necessary before the ocean outfall concept approval in December of 1976.

24. Chronology of Important Project Review Dates: Draft Concept Approval Package to EPA by May 13, ABAG Approval by 20 May. Negative declaration to be signed not later than June 9. Step II grant by June 30, 1976. The facilities plan and Draft EIR were distributed in August 1975. A public hearing was held September 17, 1975. The final EIR was distributed on March 30, 1976.

25. Special Conditions for Concept Approval: ① Submittal of final plans and specs by Jan. 1, 1977. ② Archeological impacts must be mitigated as indicated in the archeological survey ③ Air mitigation resolutions must be passed as requested by the CALIFORNIA A.R.B. ④ the secondary growth impact mitigation measures as recommended by ABAG must be implemented by the grantee ⑤ an approvable revenue program must be submitted by the requested dates.

26. Exact Eligibility Description: Modify the existing HMB activated sludge plant to a permanent facility - eligible ADWF = 1.3 mgd. Construct interceptors between Montara and Granada and Granada and H.M.B. Construct an ocean outfall for the Montara and Granada effluent. The site of the outfall will be determined in December 1976 at the completion of Phase I of the oceanographic study. Design on the outfall is not authorized until then

27. Related Construction with time schedule for implementation: Construction scheduled to begin on on-shore facilities by July 1977. Construction scheduled to begin on outfall facilities by November 1977. Full compliance with NPDES permit scheduled for February 1979.

28. Sketch of Project with eligible portions in red: