Northern Half Moon Bay Pillar Point Harbor, CA

- Section 216 Initial Appraisal Review of Completed Projects
- Continuing Authorities
 Program (CAP 111) Project

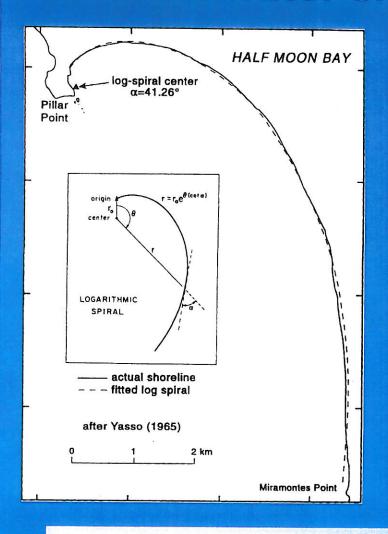


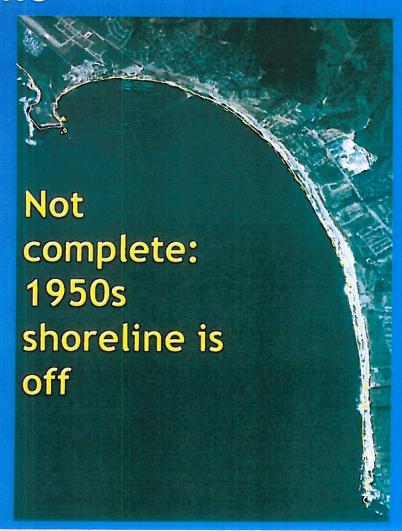


US Army Corps of Engineers
San Francisco District



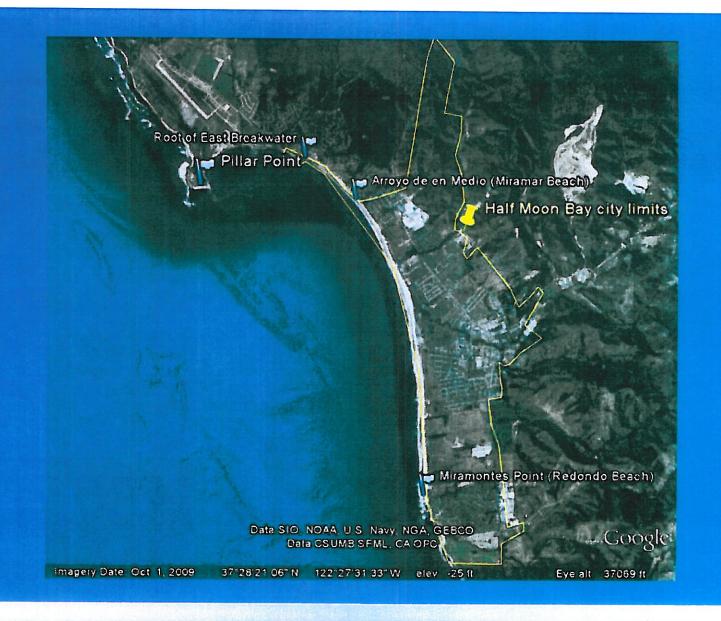
Pre-Breakwater Shoreline





1 December of 959 Engineers
San Francisco District





US Army Corps of Engineers
San Francisco District





US Army-Corps of Engineers



Project Development Team

Name

Matthew Young

Lisa Andes

John Dingler

Anthony Galvin

Peter LaCivita

Irene Lee

Arden Sansom

Jessica Soto

Frank Wu

Robert Yang

Position

Civil Engineer

Coastal Engineer

Project Planner

Geotechnical Engineer

Environmental Manager

Project Manager

Economist

Cost Engineer

Regional Technical Specialist,

Coastal Hydrodynamics

Engineer



Study Problem and Report Preparation

Study is assigned to District office.

Funds provided for reconnaissance study.

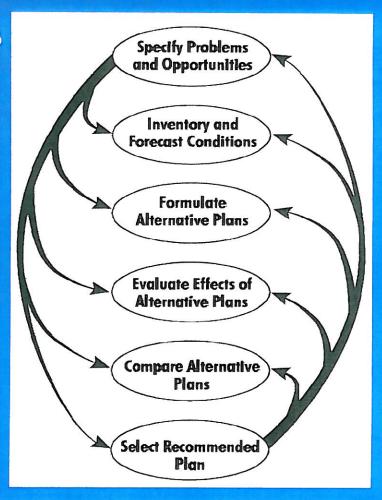
Feasibility study performed under cost-sharing agreement.

Results are described in a Feasibility Report and EIS.



Planning Process

- Problems and Opportunities
- **2** Inventory and Forecast Resources
- **3** Formulating Alternative Plans
- **©** Evaluation of Alternative Plans
- © Comparison of Alternative Plans
- 6 Select Recommended Plan





STEP 1: Problems and Opportunities

Identify the setting:

- Partnership
- Planning area
- Period of analysis
- Interdisciplinary team
- Stakeholders
- Public scoping meeting
- Specific problems
- Specific opportunities
- Specify planning, goals, objectives, and constraints



STEP 2: Inventory and Forecast Resources

- Planning requires information
- External and internal factors influence the study environment
- Determine existing conditions
- Forecast conditions
- Establish Without Project Conditions!!

Typical Process and Phases of Project Development

- CAP Section 111 Mitigation of Damages Caused by a Federal Navigation Project
- Federal cost share not to exceed \$5M
- Non-Federal Sponsor shares costs in the same proportion as costs for building the navigation project

| Planning Phase | | Pre-construction | Construction | Operation and |
|----------------------|--|--|--|---------------------------------------|
| Reconnaissance | Feasibility | Engineering Design Phase | Phase | Maintenance Monitoring Phase |
| 6-12 months duration | 2-3 years duration | 2 years duration | Duration varies | As long as project remains authorized |
| 100% federal funding | 50% federal funding 50% local funding | 75% federal funding 25% local funding | 65% federal funding 35% local funding | 100% local funding |

Feasibility Report Purposes:

Serves as a <u>Decision Document</u> to convince the Office of Management and Budget (OMB) of project viability

Is an <u>Authorization Document</u> and is submitted to Congress for project authorization



Feasibility Scoping Meeting (FSM)

- Reference ER 1105-2-100 Appendix G
- Mandatory meeting with the Corps Vertical Team, sponsors, agencies, and stakeholders
- Establish buy-in for Without Project Condition(s)
- Review/Update analysis yet to be done
- Present preliminary measures and an array of preliminary alternatives



STEP 4: Evaluation of Alternative Plans

- Compare with and without project conditions
- Screen alternatives
- Evaluate alternatives and present results of:
- Costs and Mitigation Requirements
- Benefits (monetary and non-monetary)
- Residual Risk for Loss of Human Life
 - (New Section 2033 WRDA 2007)
- P&G Accounts Impacts
 - NED National Economic Development
 - RED Regional Economic Development
 - EQ Environmental Quality
 - OSE Other Social Effects



STEP 5: Comparison of Alternative Plans

- There are different methods for comparing alternatives and their effects:
 - Monetary evaluation methods
 - Multi-criteria evaluation methods
 - Trade-off analysis
 - Goal achievement method
 - Incremental cost/cost effectiveness analysis
 - Non-monetary criteria (i.e. loss of life)
- See ER 1105-2-100 Appendices D and E

