

# SEATTLE ISLAND HARBOR

## Sediment Remediation

Seattle, Washington

### Client:

Lockheed Martin  
Corporation

### Contract Value:

\$15 million

### Performance Period:

2002–2004

### Technical Areas:

- Project Piloting
- Remediation
- Solid Waste Management
- Civil Design
- Geotechnical Engineering, Geology and Hydrogeology

### Successes:

Revised the prior site conceptual model and thereby limited the amount of sediment that had to be excavated

Completed project within proposed budget and schedule

Completed project one to two years ahead of schedule established by client



### BACKGROUND

SES Inc. staff members managed the design, permitting and construction of sediments and shoreline facilities at shipyard No.1 in the Port of Seattle's Harbor Island Facilities. The work was implemented as a design-build project and involved obtaining approval for the Port of Seattle and the US EPA, the Federal Oversight Agency.

### SES ROLE

The SES staff members included the project principal, the design and permitting manager and the construction manager.

The work conducted or supervised by the SES staff members included:

- Detailed sediment field characterization to determine the volume to be excavated and assess the geotechnical characteristics
- Development of an approximately 100,000-ton dredge plan
- Plan and specification for the demolition of the existing wooden piers and piled ship repair slips (over 5,000 wood pilings were removed)
- Design of a new steel sheet pile wall with concrete cap and repaving of the upland area
- Contractor selection and supervision of all construction over a two-year period



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