Best Management Practices Used For Recent Decommissioning Projects

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Presentation Outline

- Explosives Use
- Onshore Pipeline Decommissioning
- Offshore Pipeline Decommissioning
- Heavy Equipment in Sensitive Areas
- Conclusions and Acknowledgements
Recent Explosives Use

- Chevron 4H Platform Decommissioning Project
  - Conventional Offshore Production Platform
  - Pile Severing
- Seacliff Pier Complex Decommissioning Project
  - Pier Based Oil and Gas Production
  - Concrete Caisson Removal
- Arco Bird Island
  - Pier Based Oil and Gas Production
  - Concrete Caisson Removal
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Chevron 4H Platform Explosives Use
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Chevron 4H Platform Explosives Use
Seacliff Pier Explosives Use
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Bird Island Explosives Use
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Bird Island Explosives Use
Explosive Use BMP’s

- Focused Demolition Planning Based Upon Structure
  - Explosives use is as much art as it is science
  - Bigger is not necessarily better
- Effort Implementation of Marine Wildlife Contingency Plan
  - Marine Mammals
  - Marine Birds
  - Marine Fish
Onshore Pipeline Decommissioning

- Abandonment Considerations
  - Depth of Burial
  - Future Land Use
  - Erosion Potential
  - Stream Crossings
  - Extent of Onsite Contamination
  - Accessibility
  - Sensitive Habitat
Effective Pipeline Preparation

- Pipeline Pigging and Flushing
- Stability Grouting
Access and Removal Procedures
Slope Restoration
Offshore Pipeline Decommissioning

- Abandonment Considerations
  - Depth of Burial
    - Offshore
    - Surf Zone
  - Pipeline Integrity
  - Pipeline Pigging and Flushing Procedures
  - Erosion Potential
  - Accessibility
  - Sensitive Habitat
Pipeline Abandonment Considerations
Pipeline Removal
In Surf Zone
Offshore Pipeline Handling Considerations
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- Abandonment in Place
  - Depth of burial exceeds 5 feet.
  - Seasonal or periodic exposure not observed.
  - Depositional area with no dredging activities likely.
  - Environmental impacts associated with removal considered excessive in comparison to the benefit of removal.
Environmental Considerations
Environmental Considerations
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Heavy Equipment in Sensitive Areas

- Access Limitation Driven
- Effective Mitigation Monitoring and Compliance Program
- Extensive Agency Coordination
- Clearly Defined Operating Perimeters
- Well Maintained Equipment Operated by Knowledgeable Operators
Effective Site Exposure
Goleta Beach Hazards Removal
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Goleta Beach Hazards Removal
Effective Dewatering Procedures
Acknowlegements

- Padre Associates, Inc.
  - Brian Dugas
  - Mike Weber
  - Jenn Carnine
  - Mike Ruiz
- Longitude 123
  - Mark Steffy
- Divecon
  - Ted Roche
- Adobe Systems
- Associated Pacific
  - Paul Gillen
- Fairweather Pacific
  - Tom Kennedy
- Chevron
- Texaco
- ExxonMobil
- Unocal
- BP Arco
- Southern California Edison
- County of Santa Barbara
- California State Lands Commission