

Ocean Outfall Condition Assessment and Scoping Study

Presented by:
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Senior Engineer

Operations
Committee

December 1, 2021

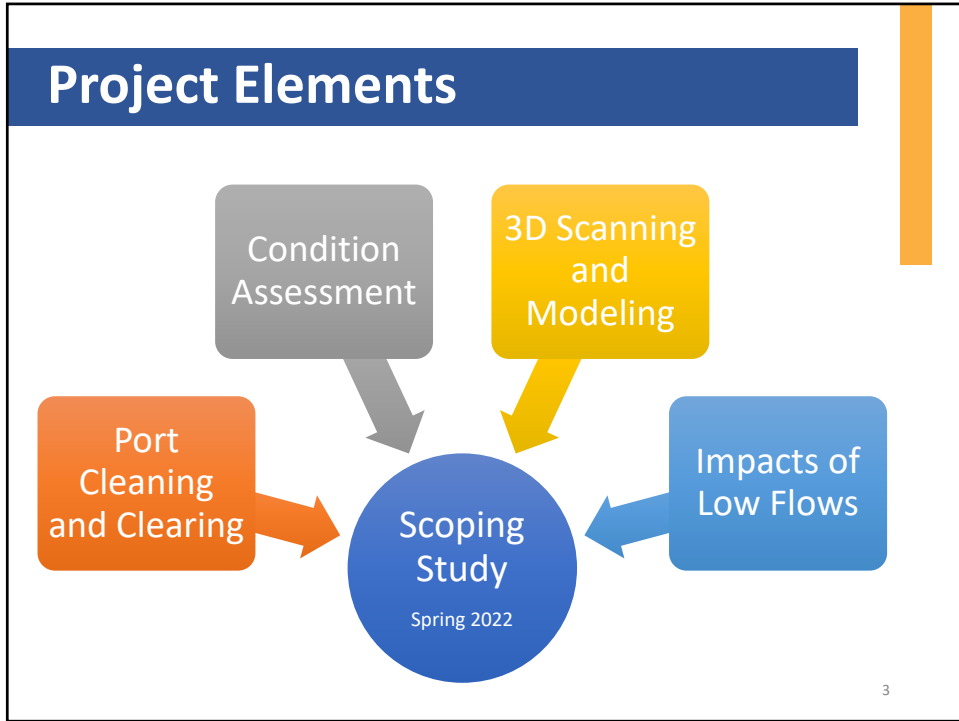


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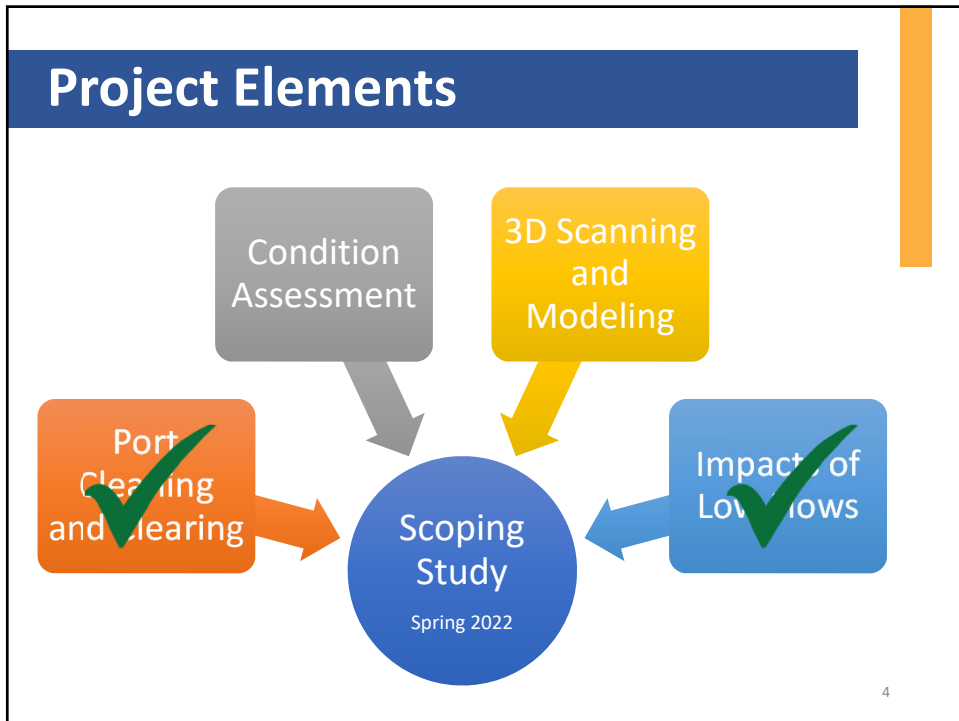
Overview of Outfall



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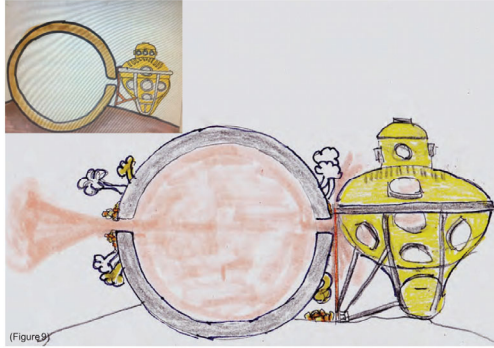


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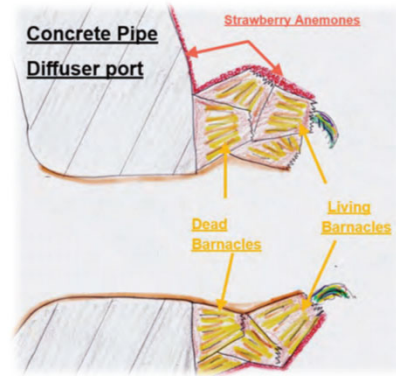


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Barnacle Cleaning



(Figure 9) Illustration of typical barnacle collar scraping removal at each diffuser location



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Barnacle Cleaning Clip



• Full Video: <https://web.microsoftstream.com/video/7a9d8402-8e45-4981-ab5f-66dbd423f68c>

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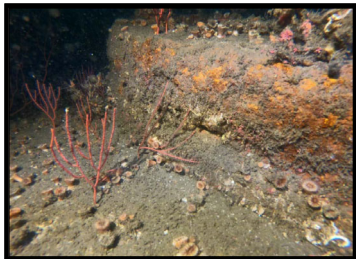
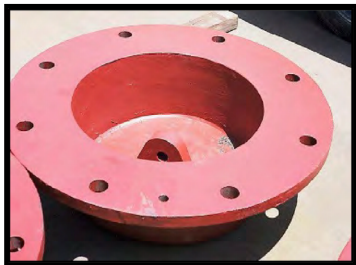
Preliminary Findings

- **Immediate Repairs**
 - Replace Tie-Rod
 - Repair Concrete Cracks
 - Repair Flap Gate Crack



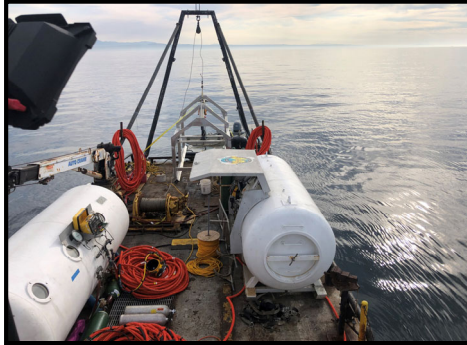
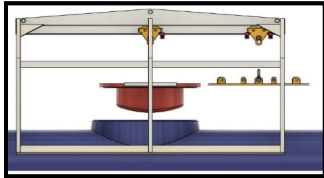
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Manhole Cover Condition



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Cover Removal and Replacement



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Additional Consultant Costs

Item	Change Value
Immediate Repairs	\$671,882
Oil Spill Remediation	\$155,503*
Total	\$827,385

*OC San to work with Legal Counsel to seek reimbursement from the responsible party

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Consultant Contract

	Contract	Contingency	Total
Original Design Contract	\$2,744,000	\$274,400 (10%)	\$3,018,400
Contingency Increase Request		\$823,200 (30%)	\$823,200
		\$1,097,600 (40%)	\$3,841,600

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Recommendation


Recommend to the Board of Directors to:

Approve a contingency increase of \$823,200 (30%) to the Professional Services Agreement with Carollo Engineers, Inc. for Ocean Outfall Condition Assessment and Scoping Study, Project No. PS18-09, for a total contingency of \$1,097,600 (40%).

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Questions



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