

DRAFT ENVIRONMENTAL IMPACT REPORT

Santa Cruz Wharf Master Plan

[SCH NO: 2016032038]



**City of Santa Cruz
Economic Development**

March 2020

DRAFT

ENVIRONMENTAL IMPACT REPORT

SANTA CRUZ WHARF MASTER PLAN

SCH NO. 2016032038

PREPARED FOR

CITY OF SANTA CRUZ

Economic Development

PREPARED BY

DUDEK

Santa Cruz, California

March 2020

INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

1	INTRODUCTION	1-1
1.1	Purpose of the EIR.....	1-1
1.2	Project Overview.....	1-2
1.3	Scope of the EIR	1-3
1.4	Environmental Review and Approval Process	1-5
1.5	Organization of Draft EIR	1-8
2	SUMMARY	2-1
2.1	Introduction	2-1
2.2	Project Overview.....	2-1
2.3	Areas of Controversy or Concern.....	2-2
2.4	Summary of Alternatives	2-3
2.5	Summary of Impacts and Mitigation Measures.....	2-3
2.6	Issues to Be Resolved.....	2-12
3	PROJECT DESCRIPTION.....	3-1
3.1	Project Location and Setting.....	3-1
3.2	Project Background	3-3
3.3	Project Objectives	3-5
3.4	Project Components	3-7
3.6	Project Approvals and Intended Use of EIR	3-21
4	ENVIRONMENTAL SETTING, IMPACTS, AND MITIGATION MEASURES	
4.0	Introduction	4-1
4.1	Aesthetics.....	4.1-1
4.2	Biological Resources	4.2-1
4.3	Cultural and Tribal Cultural Resources.....	4.3-1
4.4	Geology, Hydrology and Water Quality	4.4-1
4.5	Transportation and Traffic	4.5-1
4.6	Water Supply, Utilities and Energy	4.6-1
4.7	Land Use.....	4.7-1
5	OTHER CEQA CONSIDERATIONS	5-1
5.1	Significant and Unavoidable Impacts.....	5-1
5.2	Significant Irreversible Environmental Changes	5-1
5.3	Growth Inducing Impacts.....	5-3
5.4	Cumulative Impacts	5-4
5.5	Project Alternatives.....	5-10
6	REFERENCES AND REPORT PREPARATION.....	6-1
6.1	Agencies and Persons Contacted.....	6-1
6.2	References	6-1
6.3	EIR Team	6-9

7	FIGURES	7-1
1-1	Project Location	7-1
1-2	Vicinity Location.....	7-2
2	Wharf Expansion Over Time	7-3
3-1	Wharf Master Plan Concept	7-4
3-2	Proposed Public Access and Recreational Improvements.....	7-5
3-3	Model of Proposed Wharf Development	7-6
3-4	Cross Sections	7-7
3-5A	Concept Site Plan – Small Boat Landing	7-8
3-5B	Concept Site Plan – South Landing	7-9
3-5C	Concept Site Plan – Events Pavilion.....	7-10
3-5D	Concept Site Plan – Relocated Entrance.....	7-11
3-6	Proposed Wharf Entrance Relocation	7-12
3-7A	Entry Relocation Site Plan.....	7-13
3-7B	Entry Gate/Sign Structure Cross Section	7-14
3-7C	Entry Gate/Sign Structure Elevation.....	7-15
3-8A	East Promenade Conceptual Site Plan.....	7-16
3-8B	East Promenade Representative Site Plan & Cross Section	7-17
4.1-1	Representative Photos from West Cliff and East Cliff Drives	7-18
4.1-2	Rendering of Landmark Building and Overlook.....	7-19
4.1-3A	Photo Simulation from West Cliff Drive	7-20
4.1-3B	Photo Simulation from West Cliff Drive	7-21
4.1-4A	Photo Simulation from East Cliff Drive	7-22
4.1-4B	Photo Simulation from East Cliff Drive	7-23
4.1-5	Photo Simulation at Wharf Entrance.....	7-24
4.1-6	Photo Simulation at Monterey Bay National Marine Sanctuary Visitor Center	7-25
4.1-7	Photo Simulation from Main Beach.....	7-26
4.1-8	Photo Simulation from Cowell Beach	7-27
4.1-9	Existing Wharf Lighting	7-28
4.2-1	Nesting Bird Locations	7-29
4.2-2	Annual Mean Abundance Estimates from Monitoring Sites Around Monterey and Pt. Lobos for Groundfish Species, 1990-2014	7-30
4.2-3	Landings of Monitored coastal Pelagic Species in California (2000-2015).....	7-31
4.2-3	Wharf Lighting Change with Expansion	7-32
4.3-1	Historical Photos of Wharf.....	7-33
4.5-1	Summary of Wharf Entrace/Exit Trips	7-34

APPENDICES

- A. Notice of Preparation (NOP) and NOP Comments
- B. Wharf Master Plan Design Guidelines
- C. 2017 Wharf Nesting Bird Survey
- D. Bird Species Observed at Wharf During Wharf Surveys
- E. Biological Review of Impacts of Wharf Lighting
- F. Historic Resources Reviews

- G. Traffic Memo
- H. Energy Demand Calculations

LIST OF TABLES

3-1	Summary of Wharf Master Plan Policies and Actions.....	3-10
3-2	Summary of Approximate New Wharf Piles By Facility	3-17
4.2-1	Bird Species Observed During Green Wharf Study (2012-2014)	4.2-8
4.2-2	Summary of Population of Marine Mammals Near the Wharf.....	4.2-11
4.2-3	Special Status Marine Species Observed or Potentially Occurring In the Santa Cruz Wharf Vicinity	4.2-13
4.2-4	Special Status Bird Species Observed or Potentially Occurring In the Santa Cruz Wharf Vicinity	4.2-23
4.2-5	NOAA Fisheries Acoustic Thresholds.....	4.2-36
4.4-1	Sea Level Rise Projections for California	4.4-13
4.5-1	Intersection Level of Service Definitions.....	4.5-6
4.5-2	Existing Intersection Weekday PM Peak Hour Levels of Service	4.5-9
4.5-3	Existing Highway Traffic Volumes and Peak Hour Levels of Service	4.5-10
4.5-4	Intersection Weekday PM Peak Hour Levels of Service Definitions With Project.....	4.5-20
4.5-5	Highway Traffic Volumes and Peak Hour Levels of Service with Project.....	4.5-20
4.6-1	Estimated Electrical Demand - Operation.....	4.6-26
4.6-2	Estimated Natural Gas Demand - Operation	4.6-27
4.6-3	Hours of Operation for Construction Equipment	4.6-28
4.6-4	Construction Equipment Diesel Demand.....	4.6-28
4.6-5	Construction Worker Vehicle Gasoline Demand	4.6-29
4.6-6	Construction Vendor Truck Diesel Demand.....	4.6-29
4.6-7	Mobile Source Fuel Consumption - Operation	4.6-29
4.7-1	Potential Project Conflicts with City of Santa Cruz Policies	4.7-9
5-1	Weekday Cumulative PM Peak Hour Intersection Levels of Service	5-11
5-2	Comparison of Impacts of Project Alternatives	5-21

TABLE OF CONTENTS

INTENTIONALLY LEFT BLANK