



SANTA CRUZ COUNTY PUBLIC WORKS DEPARTMENT

CSA-20 TRESTLE BEACH ENGINEER'S REPORT

January 18, 2020

Santa Cruz County Public Works Department
701 Ocean Street, Room 410
Santa Cruz, CA 95060



**CSA 20 - Trestle Beach
Treatment Plant**

Table of Contents

Introduction	4
Current Use of Revenue.....	4
Required System Improvements.....	4
Estimated Cost Improvements.....	5
Charge Calculation and Proposed Charge.....	5
Proposition 218 Considerations.....	6
Appendix A	7
Appendix B	8
Appendix C	9
Appendix D	10
Appendix E	12

Introduction

On June 17, 1980, the Board of Supervisors passed and adopted Resolution number 388-80 to establish Trestle Beach County Service Area (CSA) No. 20 to provide operation and maintenance of the sanitary sewer system.

CSA No. 20 consists of 21 sewer connections, 824 feet of 8-inch gravity sewer main, 5 sewer manholes, a wastewater treatment plant and 19 leach pits. These facilities are operated and maintained by the County of Santa Cruz Department of Public Works' Sanitation Division. Revenues to operate the treatment facility and associated sewer collection system are collected on annual property tax bills from all parcels whose homes are connected to the system.

Appendix A includes a map of CSA No. 20 and Appendix E includes a copy of Resolution no. 388-80.

Current Use of Revenue

Assessment charges on each property are based on an initial estimate of the annual operating cost and expenses for the maintenance and operation of the system, as well as the funding deemed necessary for future capital improvements and reserves (replacement funding). The adopted 2019-20 budget showing the currently budgeted revenues and expenditures is given in Appendix D.

Required System Improvements

The following improvements have been deemed necessary by County Sanitation Division staff (Staff):

- The digester wall was deteriorated and repairs were completed in October 2019 at a cost of approximately \$14,000 including the sludge removal. If the digester were to have failed, weekly hauling of wastewater would have been required in order to maintain compliance with the State permit.
- A new State regulation requires the installation of an air gap tank to prevent cross-contamination between potable water and wastewater. This work was required to be completed by December 2019.
- The effluent tank needs to be covered for staff to safely maintain the tank and keep debris out. Falling debris from the surrounding eucalyptus grove causes stoppages in the effluent and failed readings. After meeting with representatives of CSA 20, it was decided that a screen cover will be used instead of safety grating.

- The wood structure over the control panel is deteriorated and requires replacement to protect the electrical components from weather damage.
- The existing leach pit valves are in small four-inch tubes approximately three feet deep. In order to exercise the valves, the valves need to be exposed and have a vault constructed around them.
- A leach pit inspection is needed to ensure that the pits are functioning. Once the inspection is completed, repairs may be necessary.

Estimated Costs for Improvements

An estimate of the costs required to construct and maintain the described required system improvements are shown in the following table along with a schedule for the improvement:

Capital Improvement	Estimated Cost	FY 19/20	FY 20/21	FY 21/22	FY 22/23
Repair digester wall	\$14,000	X			
Replace/Repair corroded treatment plant items	\$2,000		X		
Air Gap Tank Installation	\$5,000	X			
Screen Cover installation over aeration, digester and clarifier tank	\$2,000		X		
Wood structure replacement over control panel	\$4,000			X	
Leach pits inspection – repairs as necessary	\$24,000			X	
Total Estimate Cost	\$51,000				
Contribution to Reserves	\$5,000				X

Charge Calculation and Proposed Charge

The sewer service charge levied on each parcel is based on the direct cost of providing service to the parcels within the boundaries of the CSA. The Santa Cruz County Board of Supervisors approved the current rate charged, which became effective on July 1, 2019. The approved charge is \$2,519.29 per single family dwelling.

The costs to provide sewer service increase over time, so typically rates are raised in accordance with the Consumer Price Index (CPI) annually. However, due to the extent of the improvements required over the coming years and the increase in operation costs, rate increases greater than the CPI should be expected. The sewer service charge for the 2020-21 fiscal year is being established by the County to cover the required maintenance and operation.

See attached historical rate increases and proposed rate increases in Appendix D. A significant rate increase is necessary to cover the cost of maintenance and operations expenses as well as funds for reserves to go towards replacement costs of these assets in the future.

Proposition 218 Considerations

Proposition 218, which the voters of the State of California passed on November 5, 1996, contains requirements for the imposition of a fee or charge for property related services. Requirements for fees and charges are contained in Section 6 of Article XIII D of the California Constitution.

Paragraph (b) of the law describes the requirements for new, existing, or increased fees and charges, as:

- (1) Revenues shall not exceed the funds required to provide the service.
- (2) Revenues shall not be used for any other purpose.
- (3) The amount of the fee or charge imposed upon any parcel or person as an incident of property ownership shall not exceed the proportional cost of the service attributable to the parcel.
- (4) No fee or charge may be imposed unless the service is actually used by or immediately available to the owner of the property in question.
- (5) No fee or charge shall be imposed for general governmental services, i.e., police, ambulance, library, where the service is available to the public at large in substantially the same manner as it is to the property owners.

This report and recommended charges comply with these requirements as follows:

- Revenues generated by this charge will not exceed funds required to provide sewer services and shall not be used for any other purpose, besides what has been described herein.
- The sewer charge is the proportional cost of provided service to the parcels in the CSA and the charge is for actual use or is immediately available to the property in question.

A Service Charge Report (a listing of the Assessor's Parcel Numbers to be levied with the proposed charge amounts) is not contained in this report, but will be filed with the County Clerk in an electronic format at least two weeks prior to the public hearing for the service charge reports regarding the levy and collection of the charges for the 2020-2021 fiscal year. The purpose of the public hearing on the service charge reports is for the Board to hear and consider all objections or protests, if any, to the service charge reports. The service charge reports must be approved by the Board and forwarded to the Auditor-Controller, in order to be included on the 2020-2021 property tax roll.

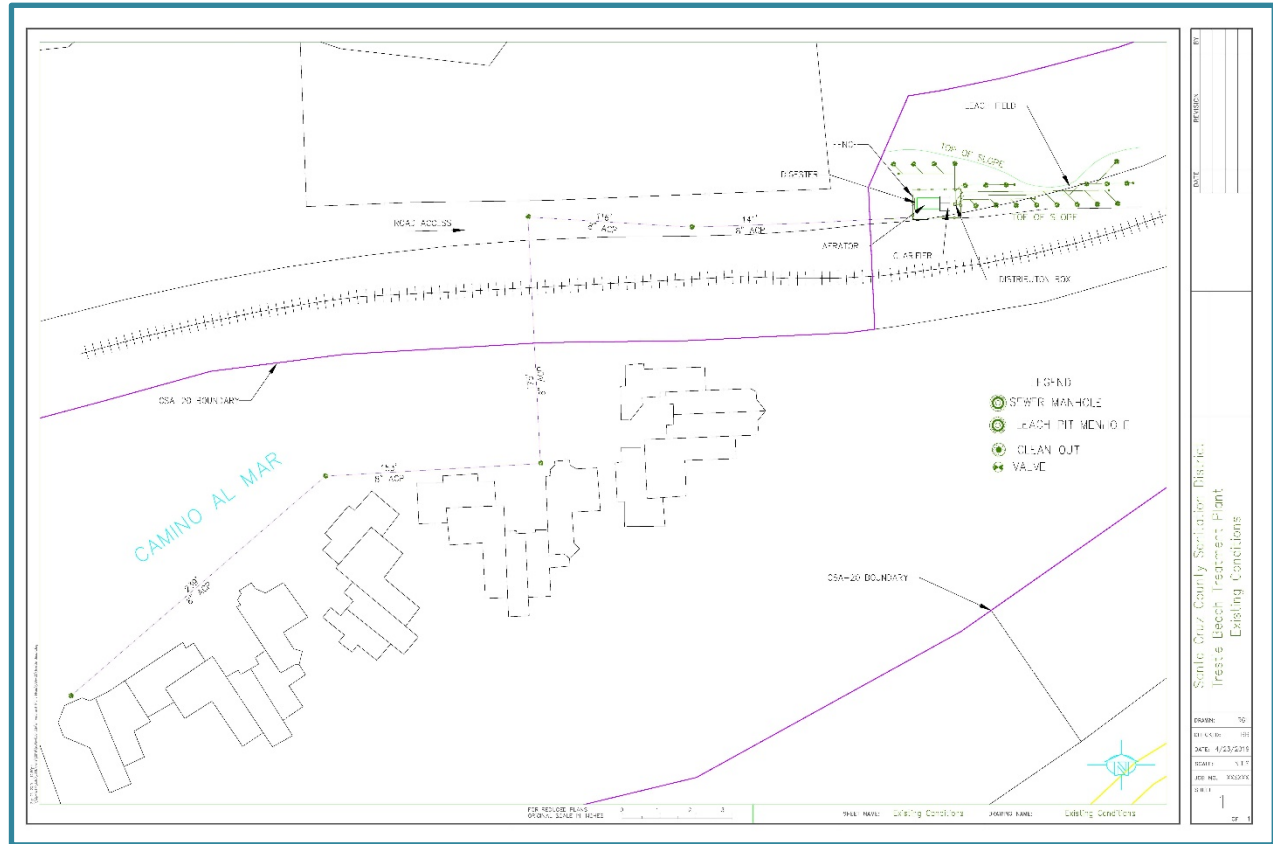
Appendix A

CSA 20 – Trestle Beach Map



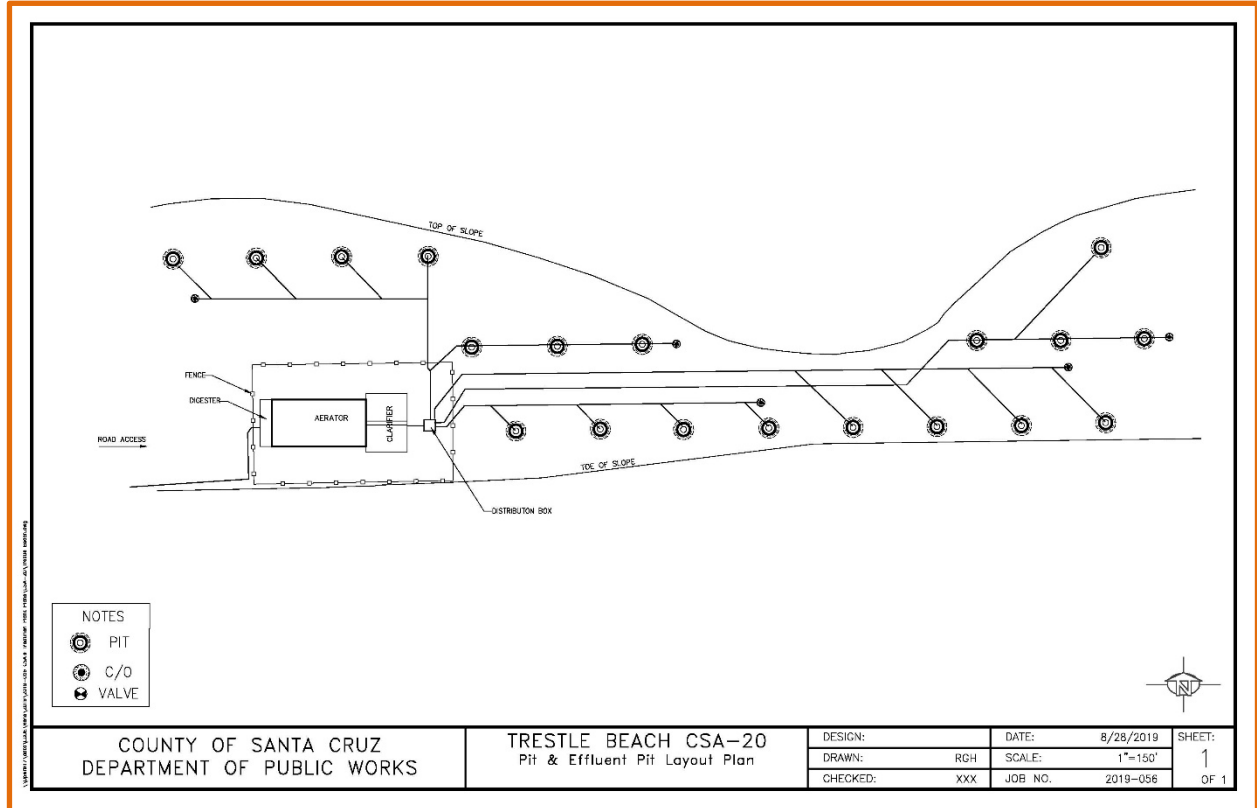
Appendix B

CSA-20 Utility Plan



Appendix C

CSA-20 Leach Field and Treatment Plant Overview Plan



Appendix D

SEWER SERVICE CHARGES HISTORY AND PROJECTIONS

% Rate Increase	Fiscal Year	Rate	Connections	Service Revenues
	14/15	2,146.20	21.00	44,619.50
2.7%	15/16	2,206.28	21.00	45,868.56
2.5%	16/17	2,263.64	21.00	47,061.14
3.4%	17/18	2,342.87	21.00	48,708.28
2.8%	18/19	2,410.81	21.00	50,120.74
4.3%	19/20	2,519.30	21.00	52,376.17
45%	20/21	3,652.98	21.00	75,945.45
4%	21/22	3,799.10	21.00	78,983.27
4%	22/23	3,951.06	21.00	82,142.60

CURRENT AND PROJECTED BUDGET

Project #	Description	19/20 Adopted Budget	20/21 Proposed Budget	21/22 Proposed Budget	22/23 Proposed Budget
Beginning Balance		\$ 35,237.31	\$ 4,279.48	\$ 1,524.93	\$ 1,540.70
Revenues (Sewer Charges)		\$ 52,376.17	\$ 75,945.45	\$ 78,983.27	\$ 82,142.60
Revenues (Direct Payment)		\$ 0.00	\$ 4,000.00	\$ 28,000.00	\$ 5,000.00
Expenditures (Maintenance & Operations)					
54802	Sewer M&O	\$ 41,724.00	\$ 51,000.00	\$ 53,550.00	\$ 56,227.50
54803	Engineering	\$ 2,000.00	\$ 2,100.00	\$ 2,205.00	\$ 2,315.25
54804	Utilities	\$ 3,000.00	\$ 3,150.00	\$ 3,307.50	\$ 3,472.88
54805	Chemicals	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
54807	Permits	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
54808	Pump & Motor Replacements	\$ 3,000.00	\$ 3,000.00	\$ 2,000.00	\$ 2,000.00
54809	Electrical M&O	\$ 2,000.00	\$ 2,100.00	\$ 2,205.00	\$ 2,315.25
54810	Misc Painting	\$ 2,000.00	\$ 2,000.00	\$ 0.00	\$ 0.00
54812	Acct & Audit Fees	\$ 250.00	\$ 250.00	\$ 250.00	\$ 250.00
54813	Lab Analysis	\$ 5,500.00	\$ 7,000.00	\$ 7,350.00	\$ 7,717.50
54814	Cathodic Protection Assessment	\$ 900.00	\$ 900.00	\$ 900.00	\$ 900.00
54815	Leach Field Maintenance	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
54816	Sludge Processing	\$ 1,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
54817	Generator Repair	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
54818	Prop 218 Flyer, Mail, Postage	\$ 2,000.00	\$ 200.00	\$ 200.00	\$ 200.00
Expenditures Subtotal (M&O)		\$ 66,874.00	\$ 78,700.00	\$ 78,967.50	\$ 82,398.38
Expenditures (Improvements)					
NEW	Capital Replacement Reserve	\$ 2,540.00			\$ 5,000.00
54811	Upgrades to Treatment Facility/SCADA				
54830	Repair Digester Wall	\$ 14,000.00			
54831	Aerator, Digester, Clarifier Cover		\$ 2,000.00		
54832	Replace Influent Pipe Over Digester				
54833	Replace Effluent Flow Meter Box				
54834	Replace/Repair Rusted Items		\$ 2,000.00		
54835	Replace Structure Over Control Panel			\$ 4,000.00	
54836	Install Leach Pit Valve Box & Valves				
54837	Inspect & Repair Leach Pits (20 ea)			\$ 24,000.00	
54838	Replace PG&E Meter Mount				
NEW	Install Air Gap Tank	\$5,000.00			
Expenditures Subtotal (Improvements)		\$19,000.00	\$4,000.00	\$28,000.00	\$5,000.00
Expenditures Total		\$ 85,874.00	\$ 82,700.00	\$ 106,967.50	\$ 87,398.38
Ending Balance		\$ 4,279.48	\$ 1,524.93	\$ 1,540.70	\$ 1,284.93

Appendix E

CSA 20 Formation Resolutions

J
B 2437
1/12/96

STATEMENT OF FUNCTIONS AND SERVICES

DISTRICT: CSA 20 Trestle Beach

On January 4, 1995, this district was providing the following functions and services:

<u>FUNCTION</u>	<u>SERVICES</u>	<u>STATE CODE SECTIONS</u>
☐ Cemeteries	☐ Cemeteries	
☐ Fire and All Emergency Medical Services	☐ Fire protection ☐ First response, basic life support ☐ First response, paramedic ☐ Patient transport ☐ Hazardous materials (including administration and response) ☐ Rescue services ☐ Disaster planning and response ☐ Weed abatement	
☐ Flood Control	☐ Flood control	
☐ Harbor	☐ Harbor facilities and services ☐ Public access ☐ Safety ☐ Visitor services	
☐ Parks and Recreation	☐ Park acquisition ☐ Development ☐ Operation and maintenance ☐ Recreational and educational activities	
☐ Pest and Vector Control	☐ Pest and vector control	
☐ Police	☐ Police ☐ Security patrols	
☐ Public Transportation	☐ Land transportation	
☐ Roads, Streets and Highways	☐ Road improvement ☐ Road maintenance ☐ Road landscaping ☐ School crossing guards	

Statement of Functions and Services (continued)

<u>FUNCTION</u>	<u>SERVICES</u>	<u>STATE CODE SECTIONS</u>
☒ Sewer	☒ Sewage collection ☒ Sewage transportation ☒ Sewage treatment ☒ Sewage reclamation ☒ Sewage disposal ☐ Septic tank maintenance	Government Code Section 25210
☐ Soil Conservation	☐ Soil conservation	
☐ Solid Wastes	☐ Waste collection ☐ Waste disposal ☐ Recycling ☐ Litter control ☐ Graffiti control	
☐ Street Lighting	☐ Street lighting	
☐ Water	☐ Water supply ☐ Water treatment ☐ Water distribution	
☐ Water Management	☐ Groundwater management ☐ Surface Water management ☐ Conservation and education	

Additional Information

- ☒ Additional information is attached to explain the categories checked above.
- ☐ No additional information is attached.

Certification

Signature: Susann Rogberg

Printed or typed name: Susann Rogberg

Title: CSA Administrator

District: Co Service Areas

Date: Jan 12, 1996

Please return the completed form to the LAFCO office. An envelope is provided.

FILE COPY

Public Works

BEFORE THE BOARD OF SUPERVISORS
OF THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA

RESOLUTION NO. 388-80

On the motion of Supervisor Liddicoat
duly seconded by Supervisor Forbus
the following resolution is adopted:

RESOLUTION ESTABLISHING TRESTLE BEACH
COUNTY SERVICE AREA NO. 20

WHEREAS, this Board by its Resolution No. 312-80
adopted May 13, 1980, declared its intention to establish a
county service area in a certain area of the unincorporated
territory of Santa Cruz County, and for that purpose fixed a time
and place for public hearing on said resolution, and

WHEREAS, at the time and place fixed, no protest were
received and the property owners affected urged the formation of
said service area.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the
Board of Supervisors of Santa Cruz County, California, that said
Board of Supervisors does hereby so declare and determine that
Trestle Beach County Service Area No. 20 be and it hereby is
established.

BE IT FURTHER RESOLVED AND ORDERED that the boundaries
of Trestle Beach County Service Area No. 20 shall be as set forth
in Exhibit "A", attached hereto and by this reference made a part
hereof.

BE IT FURTHER RESOLVED AND ORDERED that the types of
services to be performed in Trestle Beach County Service Area No.
20 shall include the following:

Miscellaneous extended services, to-wit:

Operation & Maintenance of Sanitary
Sewer System

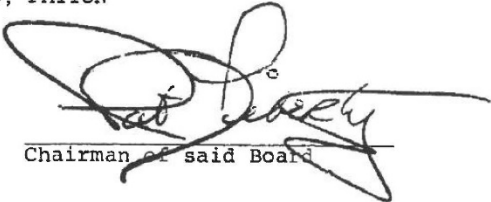
BE IT FURTHER RESOLVED AND ORDERED that the County
Clerk shall comply with the provisions of Government Code
§§54900 et seq.

of May, 1980, by the following vote:

AYES: SUPERVISORS FORBUS, LIDDICOAT, LIBERTY

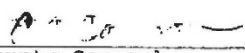
NOES: SUPERVISORS MATTHEWS, PATTON

ABSENT: SUPERVISORS NONE

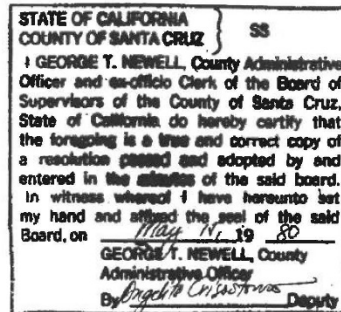

Chairman of said Board

ATTEST: HELEN J. BRIGHTWELL
Clerk of said Board

Approved as to form:


County Counsel

Distribution: Auditor-Controller
County Counsel
Public Works
LAFCO



BEFORE THE BOARD OF SUPERVISORS
OF THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA

RESOLUTION NO. 312-80

On the motion of Supervisor Patton
duly seconded by Supervisor Matthews
the following resolution is adopted:

RESOLUTION OF INTENTION TO ESTABLISH A COUNTY SERVICE AREA

WHEREAS, pursuant to Title 3, Division 2, Part 2, Chapter 3 of the Government Code of the State of California, a written request signed by two members of the Board of Supervisors of Santa Cruz County, requesting institution of proceedings for establishment of a county service area, was in proper form presented to this Board, which written request, prior to its circulation, has been approved by the Local Agency Formation Commission,

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors that:

1. A county service area is proposed to be established under the terms of the aforesaid chapter in the unincorporated area of Santa Cruz County. The boundary lines of the territories proposed for inclusion in the area are indicated on Attachment "A".
2. The name proposed for said county service area is Trestle Beach County Service Area No. 20.
3. The type of extended county service proposed to be provided in this area is operation and maintenance of sanitary sewer system.
4. Sufficient funds are available to pay for such service from service charges collected pursuant to Government Code Section 25210.77a.
5. On June 10, 1980, a public hearing will be held on the establishment of said county service area.

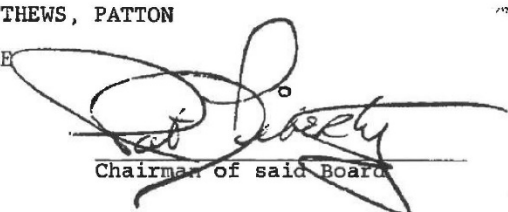
PASSED AND ADOPTED by the Board of Supervisors of the County of Santa Cruz, State of California, this 13th day

PASSED AND ADOPTED by the Board of Supervisors of the
County of Santa Cruz, State of California, this 17th day
of June, 1980, by the following vote:

AYES: SUPERVISORS FORBUS, LIDDICOAT, LIBERTY

NOES: SUPERVISORS MATTHEWS, PATTON

ABSENT: SUPERVISORS NONE

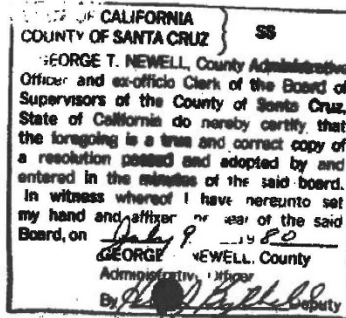

Chairman of said Board

ATTEST: HELEN J. BRIGHTWELL
Clerk of said Board

Approved as to form:

CA Carlson
County Counsel

Distribution: Assessor
Auditor-Controller
County Counsel
Surveyor
Public Works
Recorder
LAFCO (5)



RESOLUTION NO. 564

On the motion of Commissioner Liddicoat
duly seconded by Commissioner Liberty
The following Resolution is adopted:

RESOLUTION OF THE LOCAL AGENCY FORMATION COMMISSION
OF THE COUNTY OF SANTA CRUZ
MAKING DETERMINATIONS AND AUTHORIZING PROCEEDINGS TO
CREATE A COUNTY SERVICE AREA DESIGNATED AS
TRESTLE BEACH NO. 564

The Local Agency Formation Commission of the County of Santa Cruz DOES HEREBY RESOLVE,
DETERMINE, AND ORDER as follows:

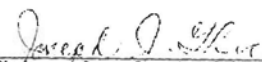
1. A petition for the proposed formation of a County Service Area was heretofore filed with the Executive Officer of this Commission; said County Service Area is assigned the short form designation of "Trestle Beach No. 564," the County of Santa Cruz is designated as the conducting agency; and the Board of Supervisors of said County is hereby authorized to conduct proceedings in compliance with this Resolution.
2. The Executive Officer of this Commission has examined said petition and executed his certificate determining and certifying that said petition is sufficient as a legal document; has given notice of public hearing by this Commission upon said petition in the form and manner provided by law; and has reviewed said petition and has prepared a report, including his recommendations, thereon, and has presented the same before this Commission for consideration.
3. The public hearing by this Commission was held on August 8, 1979, being the time and date, and at the place specified in said notice of public hearing, and at such hearing this Commission heard and received all oral and written protests, objections, and evidence which were made, presented, or filed.
4. The boundaries set forth in said petition are approved as submitted.
5. Creation of said County Service Area is in order to provide a County controlled public agency to operate and maintain a sanitary sewer system. The Board of supervisors of Santa Cruz County may complete these proceedings only after receiving the recommendations of the County Environmental Health Officer and the Director of Public Works that the proper handling of sewage can best be accomplished through the vehicle of the proposed County Service Area.
6. For the purposes of complying with the California Environmental Quality Act and the Local Agency Formation Commission Environmental Impact Guidelines, the County of Santa Cruz is the Lead Agency.

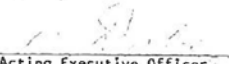
PASSED AND ADOPTED by the Local Agency Formation Commission of the County of Santa Cruz this 8th day of August, 1979 by the following vote:

AYES: Commissioners Liddicoat, Palmtag, Liberty, Levy, Ghio

NOES: Commissioners None

ABSENT: Commissioners None


Chairman, Santa Cruz Local Agency
Formation Commission

ATTEST: 
Acting Executive Officer

