



**Carmel Area Wastewater District**

**2021 Annual**

**Operations & Compliance Report**

**ORDER # 93-72**

**Reclamation  
(Tertiary)**



Barbara Bulkema  
General Manager  
Edward Waggoner  
Operations Superintendent  
Robert R. Wellington  
Legal Counsel

## Carmel Area Wastewater District

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Board of Directors  
Gregory D'Ambrosio  
Michael K. Rachel  
Robert Siegfried  
Charlotte F. Townsend  
Ken White

Wednesday, January 19, 2022

California Regional Water Quality Control Board  
Central Coast Region  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401-7906  
[centralcoast@waterboards.ca.gov](mailto:centralcoast@waterboards.ca.gov)

Subject: 2021 Carmel Area Wastewater District Annual Reclamation Operations & Compliance Report - ORDER #93-72


Dear To Whom It May Concern,

Enclosed please find the Carmel Area Wastewater District's Annual Report submitted as requested by the California Regional Water Quality Control Board and the State Water Resources Control Board

Section One (1): Tabular summary of the monitoring data obtained during the previous year -2021  
Section Two (2): Graphical summary of the monitoring data obtained during the previous year -2021  
Section Three (3): Discussion of compliance record and corrective actions taken or requested to bring discharge into full compliance.  
Section Four (4): List of current operating personnel and their grade of certification.  
Section Five (5): Carmel Area Wastewater District's Operation & Maintenance Manual status discussion.  
Section Six (6): Statement concerning the laboratories used by Carmel Area Wastewater District to monitor compliance with effluent limits and summary of performance as required by section B, General Monitoring Requirements.

Respectfully Submitted,

CARMEL AREA WASTEWATER DISTRICT

  
Edward Waggoner  
Operations Superintendent

# SECTION ONE

Tabular summary of the monitoring data

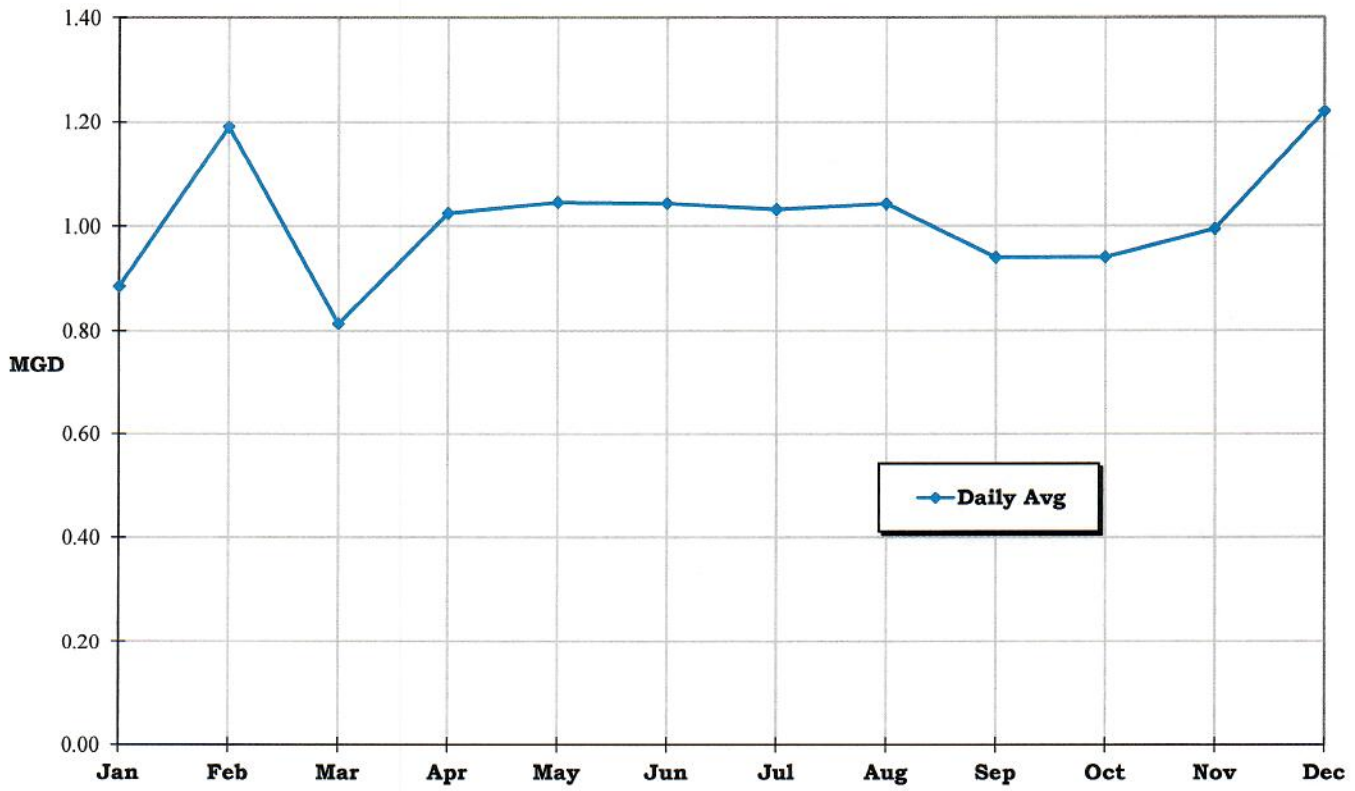
**Reclamation**  
**TABULAR SUMMARY OF 2021 NPDES REPORTABLE DATA**

Month	Reclaimed Flows		CBOD <sub>5</sub>	Total Suspended Solids	Turbidity		CL2 Residual		pH	Total Coliforms	Sett. Solids	TDS
	Monthly Total Flow MG	Daily Avg MGD	5-Day mg/l	Total Residue mg/l	Avg	Max	Min	Max	Grab Daily Units	mpn / 100 ml	ml/l	mg/l
Jan	27.455	0.886	2.16	0.01	0.02	0.04	8.1	8.9	7.2	<1.0	<0.1	239
Feb	30.842	1.191	4.50	0.40	0.04	0.10	10.0	13.4	7.5	<1.0	<0.1	
Mar	13.835	0.814	1.86	0.00	0.02	0.04	8.0	8.9	7.2	<1.0	<0.1	
Apr	30.752	1.025	1.92	0.04	0.01	0.04	8.1	8.6	7.2	<1.0	<0.1	238
May	32.439	1.046	1.68	0.03	0.02	0.05	7.9	8.6	7.2	<1.0	<0.1	
Jun	31.323	1.044	1.85	0.03	0.02	0.04	7.6	8.5	7.3	<1.0	<0.1	
Jul	32.008	1.033	1.91	0.10	0.02	0.06	7.7	8.5	7.3	<1.0	<0.1	270
Aug	32.336	1.043	2.07	0.17	0.02	0.03	7.6	8.1	7.2	<1.0	<0.1	
Sep	28.248	0.942	1.84	0.05	0.02	0.03	7.0	8.7	7.3	<1.0	<0.1	
Oct	29.198	0.942	1.42	0.03	0.02	0.04	6.9	8.7	7.4	<1.0	<0.1	152
Nov	29.850	0.995	1.11	0.01	0.02	0.02	7.3	9.2	7.4	<1.0	<0.1	
Dec	37.845	1.221	1.44	0.04	0.02	0.04	7.4	8.4	7.3	<1.0	<0.1	

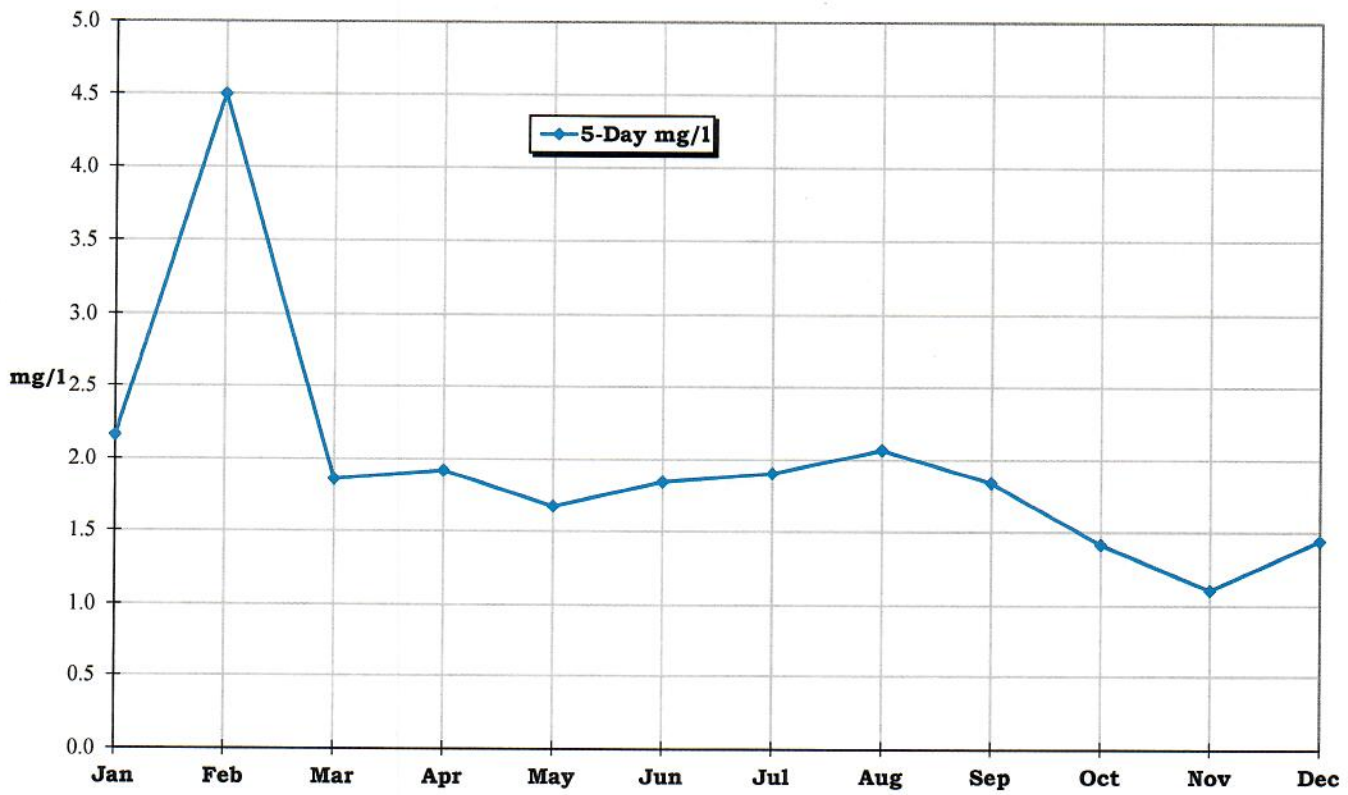
# SECTION TWO

Graphical summary of the monitoring  
data

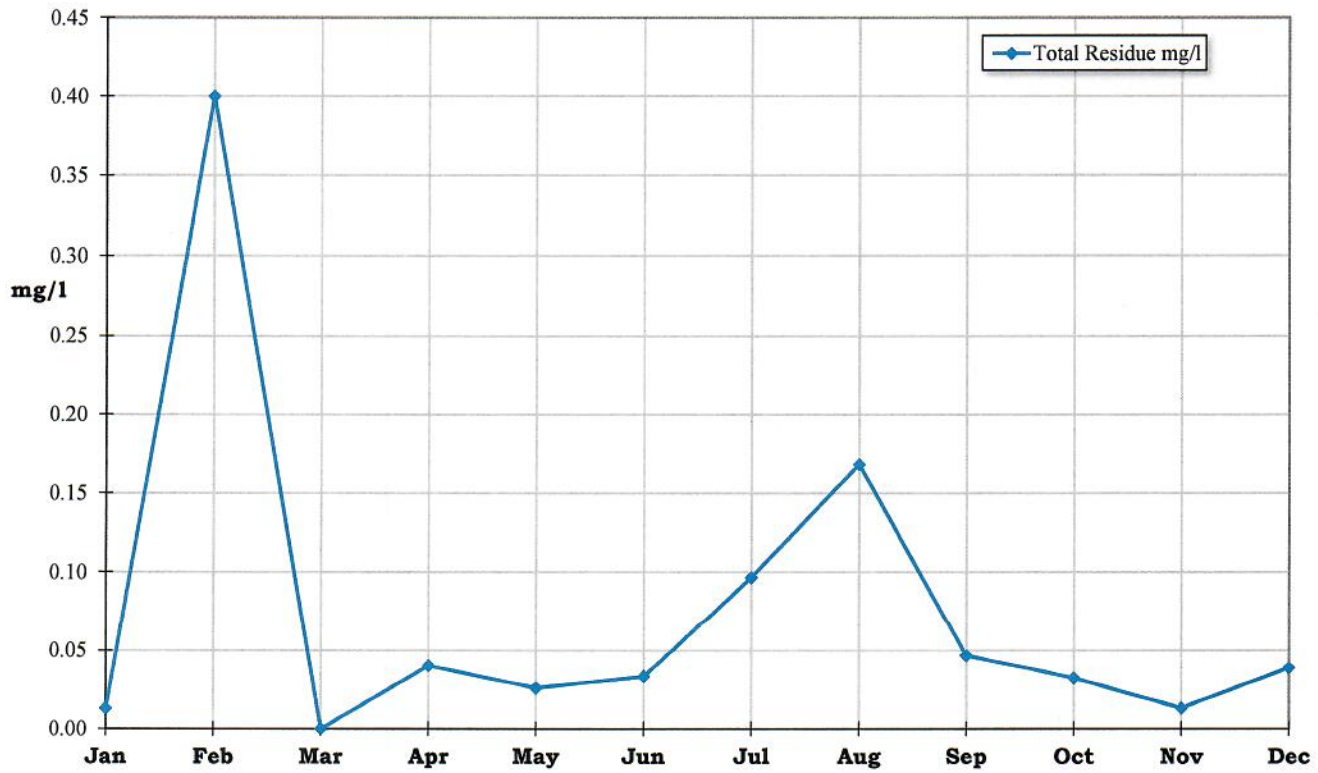
## Reclamation Flow 2021



## Reclamation CBOD 2021

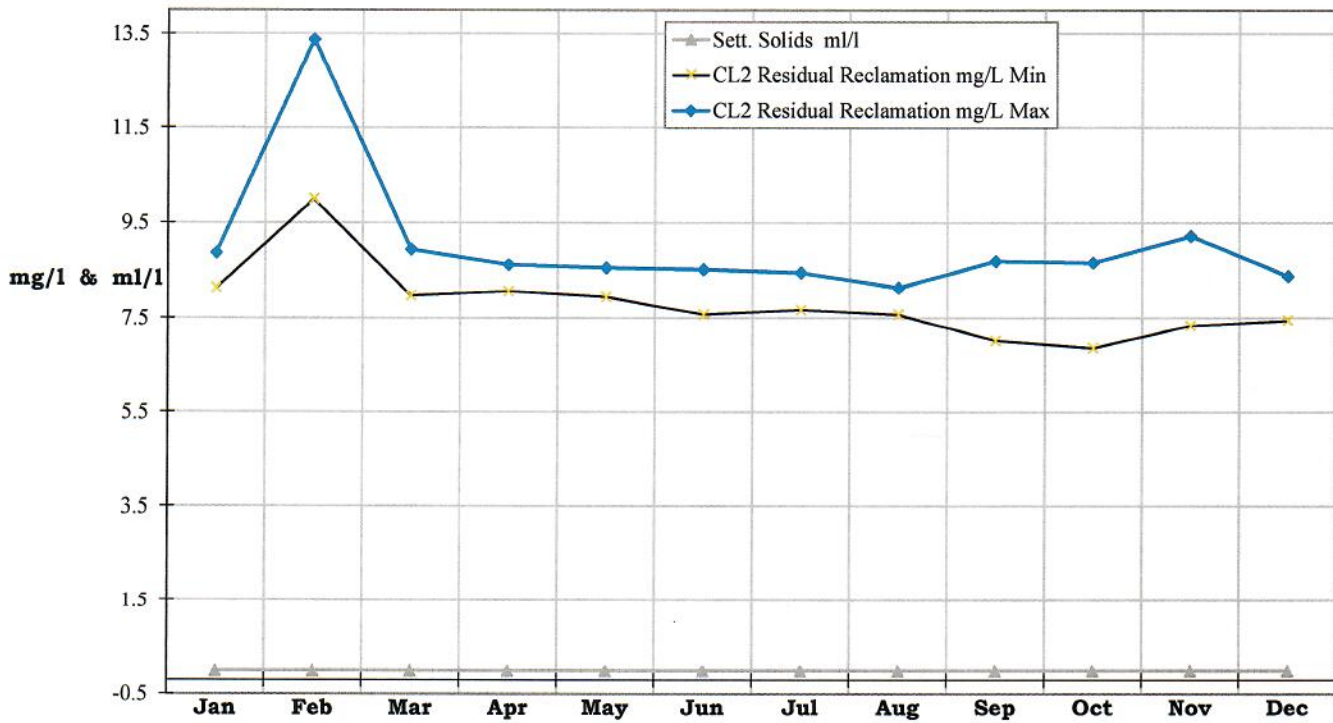


## Reclamation T.S.S. 2021

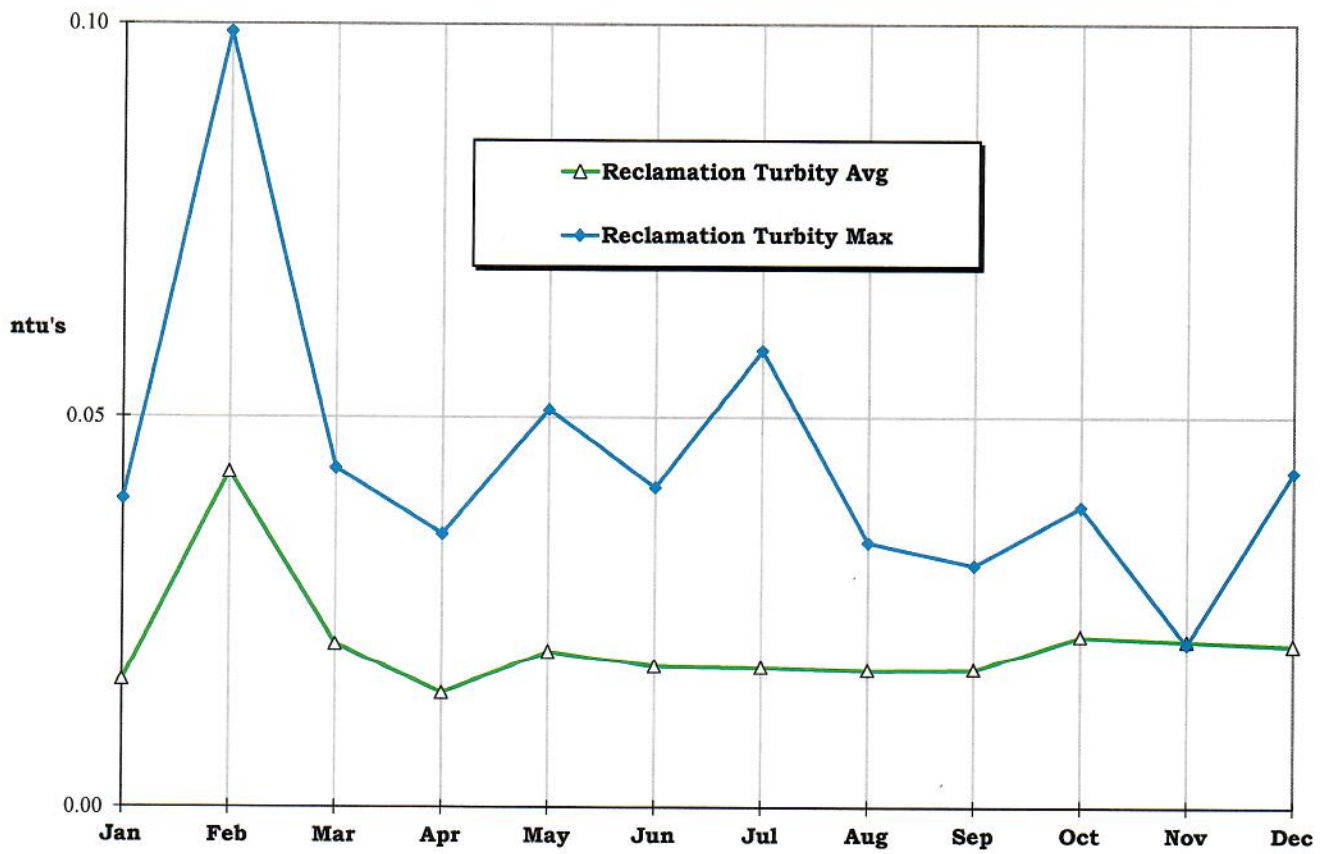




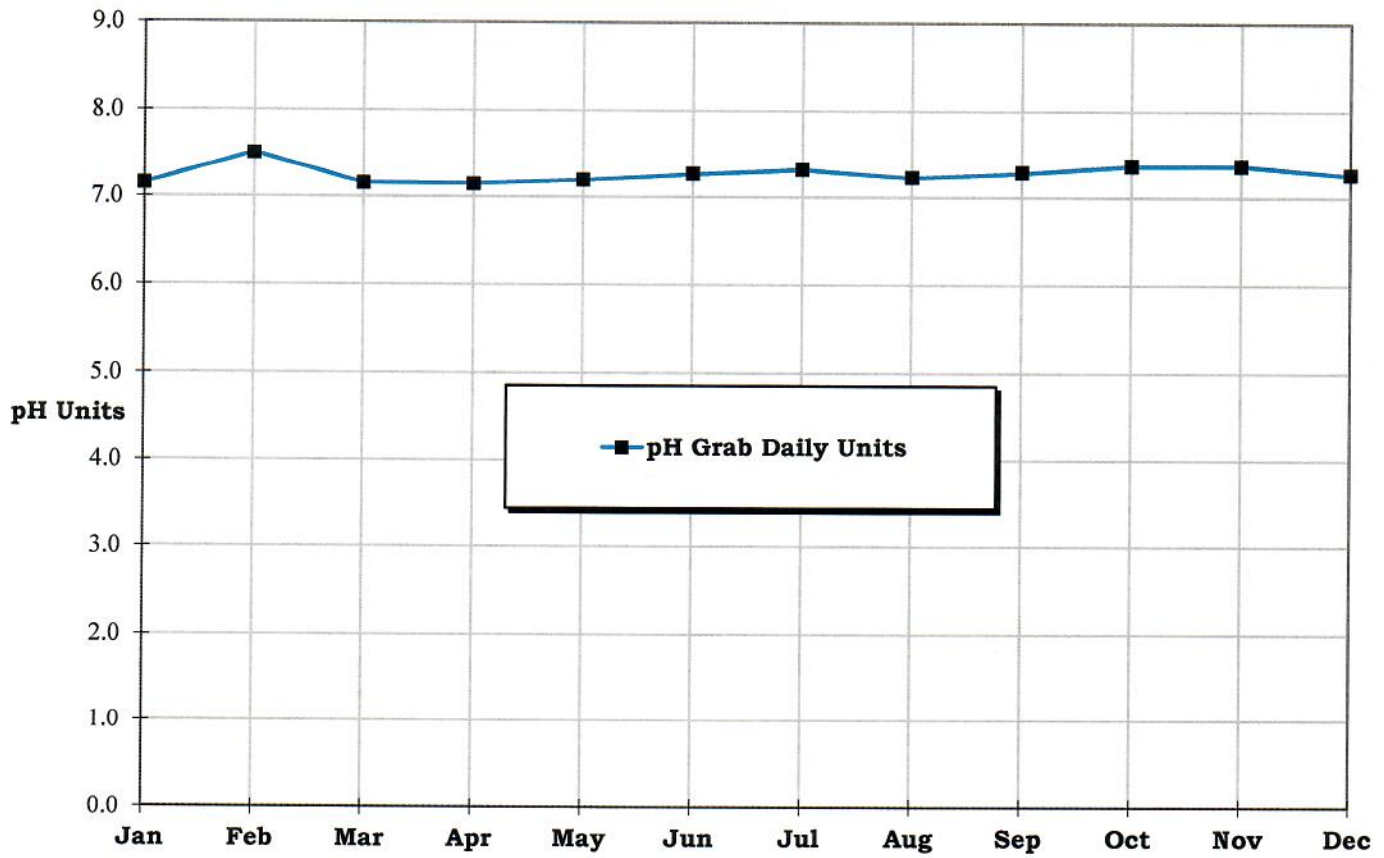
## Reclamation Effluent Sett Solids & Chlorine Residual 2021



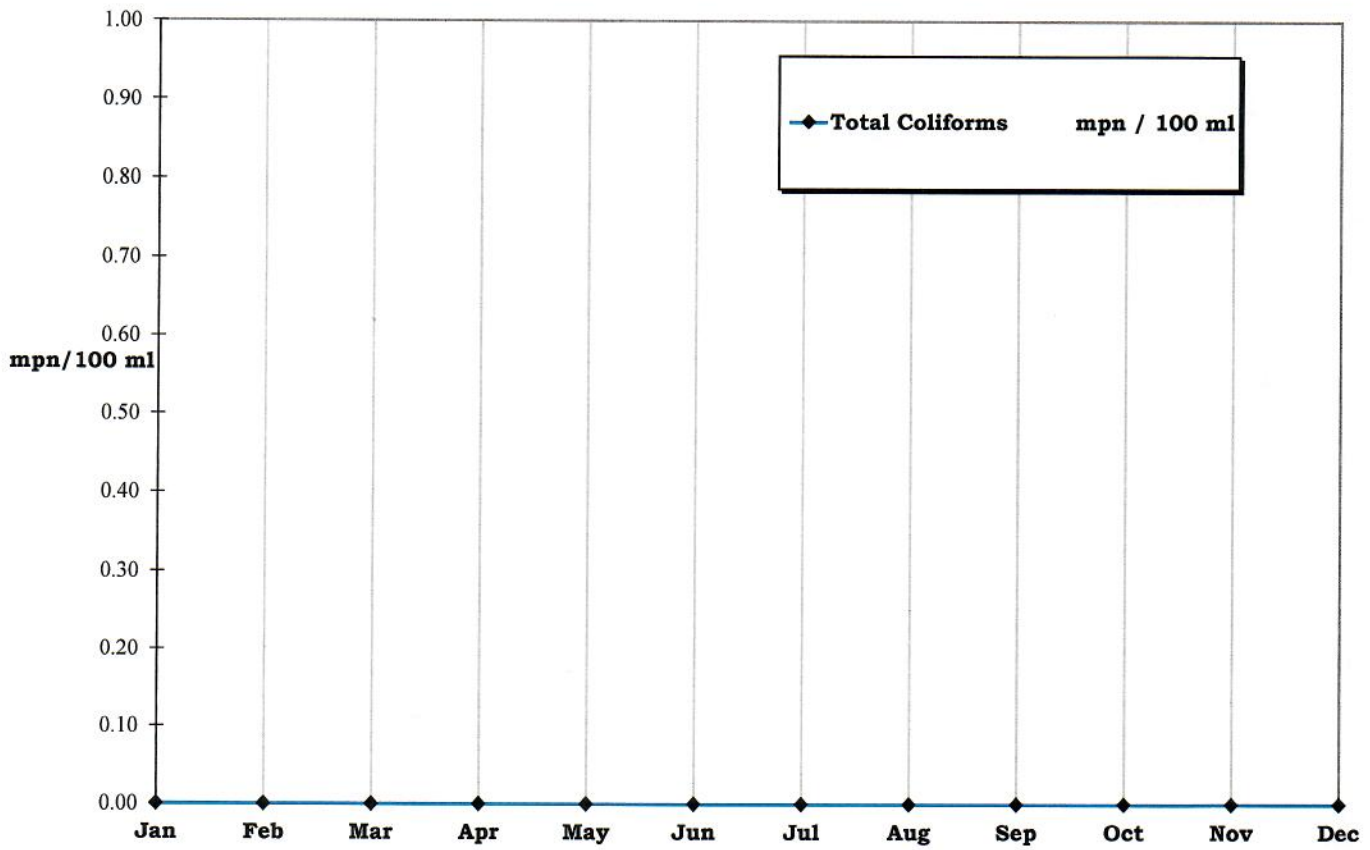
## Reclamation Effluent Turbidity 2021



## Reclamation Effluent pH 2021



# Reclamation Total Coliform Monthly Maximum 2021



# SECTION THREE

Discussion of compliance record and  
corrective actions

**DISCUSSION OF COMPLIANCE RECORD AND CORRECTIVE ACTIONS TAKEN OR  
REQUESTED TO BRING DISCHARGE INTO FULL COMPLIANCE**

**No reported compliance exceedences or corrective actions**

# SECTION FOUR

List of current operating personnel

**SENIORITY DISTRIBUTION & CERTIFICATION LEVELS OF  
CAWD TREATMENT PLANT PERSONNEL  
2021**

Name	Operations Position	SWRCB Certification Level Maintained
Edward Waggoner	Operations Superintendent	V
Kevin Young	Operations Supervisor	V
Christian Schmidt	Senior Operator	III
Chris Dixon	Senior Operator	III
Michael Hooks	Senior Operator	III
Michael Garrison	Operator II	III
Charles DayEngel	Operator II	II
Jason Veile	Operator II	II
Name	Maintenance Position	Certification Level Maintained
Chris Foley	Maintenance Superintendent	IV
Michael Skinkle	Maintenance Worker	III
Greg Ange	Maintenance Worker	III
Name	Laboratory Position	Certification Level Maintained
Ray De Ocampo	Laboratory/ Environmental Compliance Supervisor	III & I
Trevor Holland	Laboratory Analyst/Environmental Compliance II	IV & I
Fanny Mui	Laboratory Analyst/Environmental Compliance I	II & I





# SECTION FIVE

Carmel Area Wastewater District's  
Operation & Maintenance Manual status

**Carmel Area Wastewater District Wastewater District**  
**Operation Maintenance Manual**

**STATUS**

The Carmel Area Wastewater District's Reclamation Operation and Maintenance Manual was first written and submitted to the District on 12 August, 1994 following a review and comment period.

Corrections/amendments were made and the final version of the Tertiary Operations and Maintenance Manual was submitted to the Carmel Area Wastewater District on 14 March, 1995

The Tertiary Operations and Maintenance Manual was updated in 2007 as part of the Micro Filtration Reverse Osmosis (MF RO) Project. This was done by a joint effort with the Pebble Beach Community Service District.

The Reclamation Operations and Maintenance Manual, as submitted to the District by the design engineer, exist, by contract, as a hardbound copy as well as in an electric version such that Carmel Area Wastewater District Operations/Maintenance/Lab staff can modify procedures/drawings as required by experience/knowledge and system modifications. Thusly modifications occur on an on-going basis.

# SECTION SIX

Laboratories used by Carmel Area  
Wastewater District

**Statement concerning the laboratories used by the Carmel Area Wastewater District to monitor compliance with effluent limits and summary of performance as required by section B. General**

1 Monterey Bay Analytical Services  
4 Justin Court, Suite D  
Monterey , CA 93940

CA ELAP # 2385

2 Aquatic Bioassay & Consulting Laboratories, Inc.  
29 North Olive Street  
Ventura, CA 93001

CA ELAP# 1907

3 Carmel Area Wastewater District (CAWD)  
Highway One & Carmel River  
Carmel, CA 93923  
(831) 257-0432 -Phone  
(831) 624-1478 -Fax

CA ELAP # 1804

4 Fruit Growers Laboratories (FGL)  
3442 Empresa Drive, Suite D  
San Luis Obispo, CA 93401

CA ELAP # 2775