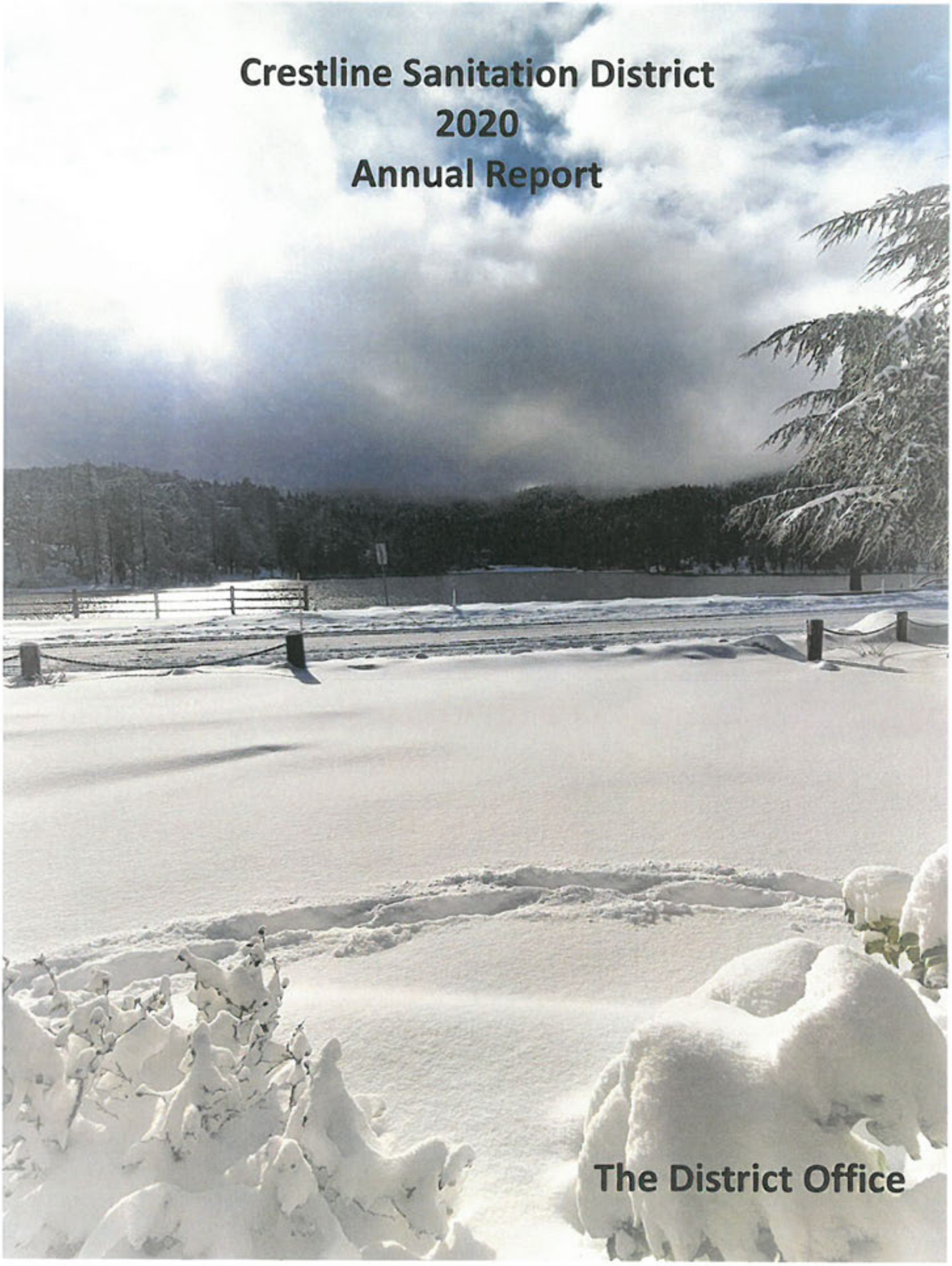
Crestline Sanitation District
2020
Annual Report



The District Office

CRESTLINE SANITATION DISTRICT
ANNUAL REPORT

Monitoring and Reporting Program: 6-94-57

WDID Number: 6B360106001

ANNUAL REPORT

Year: 2020

The data in this report has been reviewed for violations of wastewater discharge requirements by the Operations Manager and District Manager.

Report Prepared by:

RONALD SCRIVEN, OPERATIONS MANAGER
CRESTLINE SANITATION DISTRICT

Report Submitted by:

RICK DEVER, DISTRICT MANAGER
CRESTLINE SANITATION DISTRICT

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Crestline Sanitation District
Annual Report
Summation
2020

Crestline Sanitation District collected, treated, and discharged 229.50 million gallons of wastewater in 2020. We had a total of 17 flow violations in 2020 in which all 17 were 24 hour violations. These violations were due to storm events which occurred in March and April of 2020 in which the District received 19.27 inches of rain out of the annual rainfall of 24.5 inches.

Throughout 2020 the Districts' Maintenance Crew systematically televised 6.27 miles of pipe. During 2020 the District Hydroed 21.4 miles of pipeline exceeding the Sanitary Sewer Management Plan (SSMP) mark of 15.2 miles for the year.

In 2020, Dudek Engineering & Environmental continued to work with the District on procuring an SRF loan from the State for much needed Plant redundancys' and upgrades identified by the Districts Master Plan.

The Mohave Desert Resource Conservation District continued to work on the Farm Management Plan. The goal of the Farm Management plan is to reduce the levels of nitrate in the wells. Due to COVID-19 work on this project slowed down due to the unknowns of the virus. The MDRCD will be putting together a plan to continue progress for the 2021-2022 calendar year.

Over the course of the year CSD raised 54 manholes to grade. The District also smoke tested 36,085 feet of sewer line/laterals. A few deficiencies were found and repaired by the District to correct the infiltration and inflow issues.

An Annual Audit of the District was performed in 2020 by Smith Marion & CO. This accounting firm did a thorough job finding Crestline Sanitation's records to be well prepared, which allowed the audit to be completed in a timely manner and concluded with no findings.

CRESTLINE SANITATION DISTRICT
ANNUAL REPORT

Table of Contents

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Treatment Facility Total Volume Flows

YEAR: **2020**

Site	**Huston Plant**	**Seeley Plant**	**Cleghorn Plant**	**Las Flores**	**Las Flores Ponds**	
Readings	daily	daily	daily	daily	daily	monthly
Violations						
Design limits	0.7 mg/d design	0.5 mg/d design	0.2 mg/d design			
	total volume month	total volume month	total volume month	total volume to irrigation	total volume to ponds	free board
	All flow rates in million gallons					feet
	Huston Creek	Seeley Creek	Cleghorn	District Effluent	District Effluent	Flow to ponds
JANUARY	13.64	.5.88	0.236	21.68	0.00	empty
FEBRUARY	12.14	8.12	0.163	16.53	0.00	empty
MARCH	16.96	10.25	0.372	26.33	0.00	empty
APRIL	19.91	12.21	0.904	32.29	0.00	empty
MAY	14.29	8.25	0.374	22.10	0.00	empty
JUNE	12.21	6.02	0.260	17.52	0.00	empty
JULY	11.51	5.13	0.257	16.42	0.00	empty
AUGUST	11.16	4.65	0.215	15.36	0.00	empty
SEPTEMBER	10.63	4.29	0.147	14.16	0.00	empty
OCTOBER	11.25	4.25	0.157	14.23	0.00	empty
NOVEMBER	11.77	4.76	0.096	16.21	0.00	empty
DECEMBER	12.31	4.76	0.084	16.68	0.00	empty
2020 Treatment Facility Total Volume Flow						
Totals	**157.78**	**72.71**	**3.27**	**229.50**	**0.00**	

* Las Flores Total flows are represented by the addition of the Huston Creek, Seeley Creek, Cleghorn and Pilot Rock plant flow as measured as the flow discharges to the district outfall.

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Treatment Facility Maximum Instantaneous Flow Rates

Year: **2020**

Site	Huston Creek	Seeley Creek	Cleghorn	Las Flores	Las Flores
Reading	daily	daily	daily	daily	daily
Violations					
Design limits	2.5 mg maximum	1.0 mg maximum	0.4 mg maximum		
	max flow rate month	max flow rate month	max flow rate month	max flow rate month	max flow rate month
All flow rates in million gallons					
	Huston	Seeley	Cleghorn	District Effluent	Flow to ponds
JANUARY	0.880	0.405	0.060	1.300	empty
FEBRUARY	0.660	0.460	0.035	1.060	empty
MARCH	0.920	0.620	0.160	1.860	empty
APRIL	1.300	0.810	0.200	2.000	empty
MAY	0.700	0.505	0.110	1.240	empty
JUNE	0.620	0.395	0.070	1.000	empty
JULY	0.600	0.355	0.155	0.960	empty
AUGUST	0.630	0.375	0.070	0.890	empty
SEPTEMBER	0.620	0.315	0.060	0.940	empty
OCTOBER	0.600	0.285	0.060	0.880	empty
NOVEMBER	0.645	0.380	0.090	1.130	empty
DECEMBER	0.645	0.315	0.070	1.500	empty
2020 Treatment Facility Maximum Instantaneous Flow Rate					
Maximum	**1.300**	**0.810**	**0.200**	**2.000**	

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

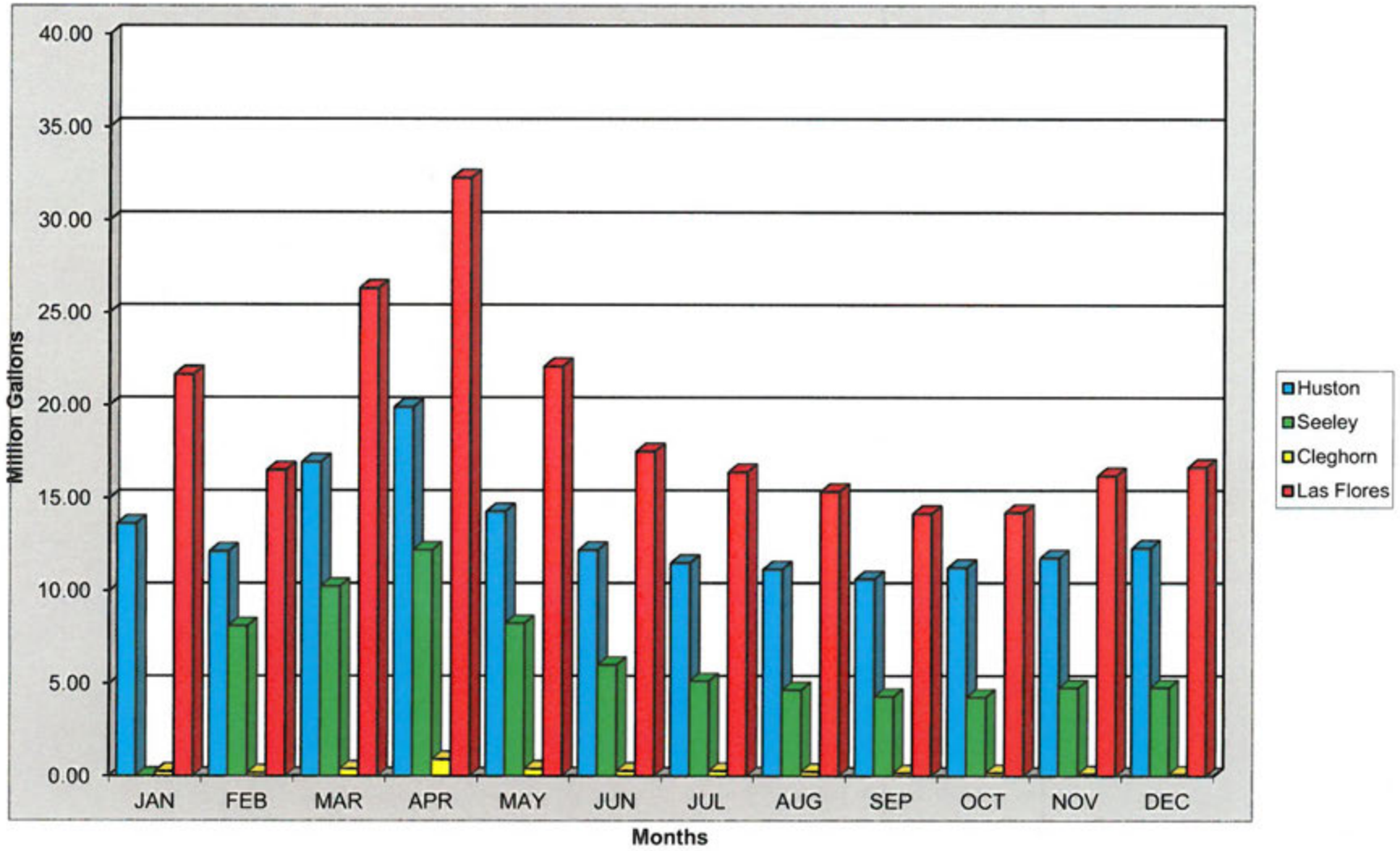
Treatment Facility Average Flow Rates

Year: **2020**

Site	**Huston Creek**	**Seeley Creek**	**Cleghorn**	**Las Flores**	**Las Flores**
Readings	daily	daily	daily	daily	daily
Violations					
Design limits	0.7 mg/d average	0.5 mg/d average	0.2 mg/d average		
	average flow month	average flow month	average flow month	average flow month	average flow month
All flows in million gallons per day					
	Huston	Seeley	Cleghorn	District Effluent	Flow to ponds
JANUARY	0.439	0.203	0.008	0.699	empty
FEBRUARY	0.344	0.262	0.006	0.570	empty
MARCH	0.545	0.331	0.012	0.849	empty
APRIL	0.737	0.407	0.030	1.076	empty
MAY	0.448	0.266	0.012	0.713	empty
JUNE	0.407	0.201	0.009	0.584	empty
JULY	0.371	0.166	0.000	0.530	empty
AUGUST	0.360	0.150	0.007	0.495	empty
SEPTEMBER	0.354	0.143	0.005	0.472	empty
OCTOBER	0.363	0.137	0.005	0.459	empty
NOVEMBER	0.392	0.159	0.003	0.540	empty
DECEMBER	0.397	0.154	0.003	0.538	empty
2020 Treatment Facility Average Flow Rate					
Average	**0.430**	**0.215**	**0.008**	**0.627**	

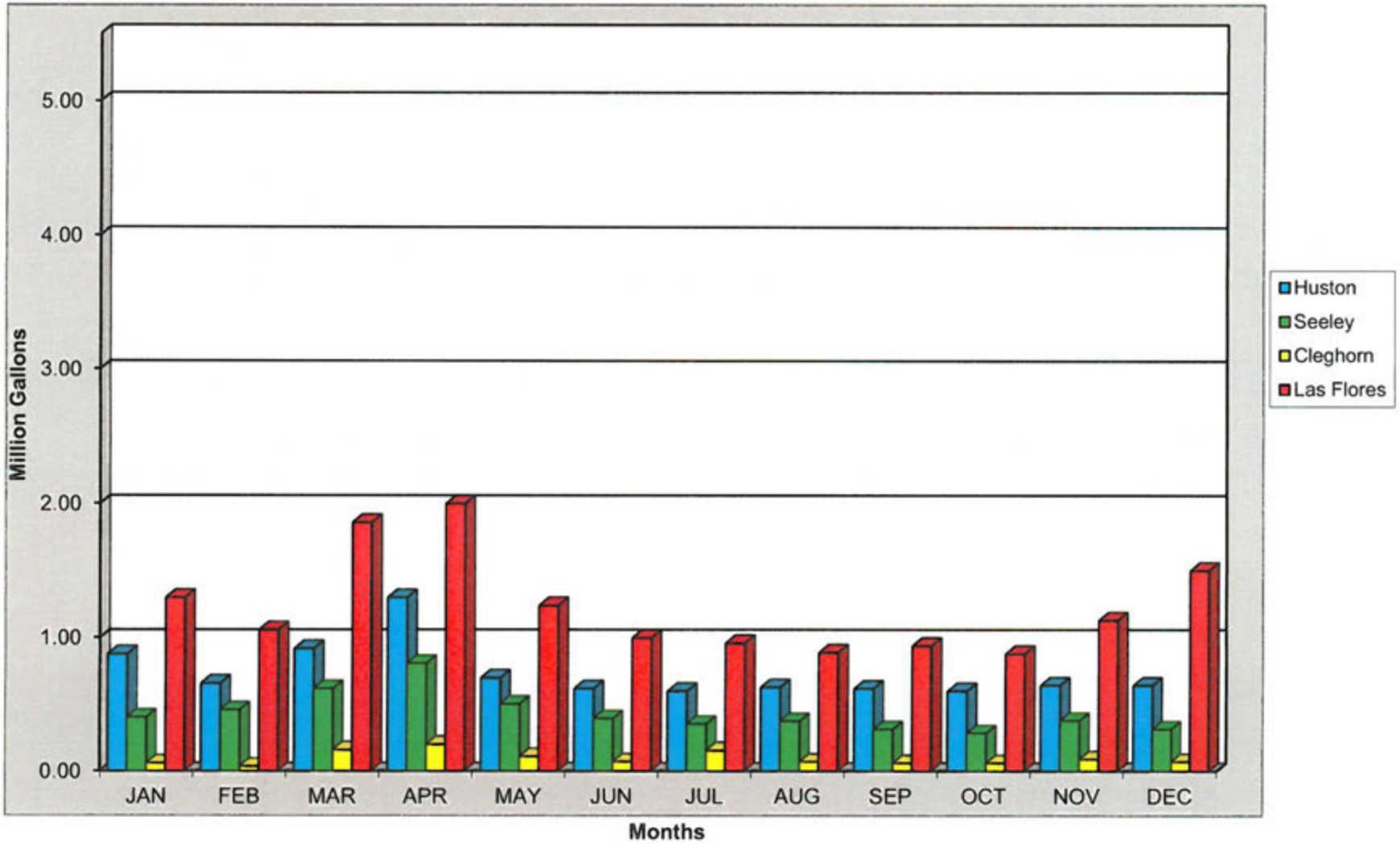
CRESTLINE SANITATION DISTRICT

Treatment Facility Total Volume Flows - 2020



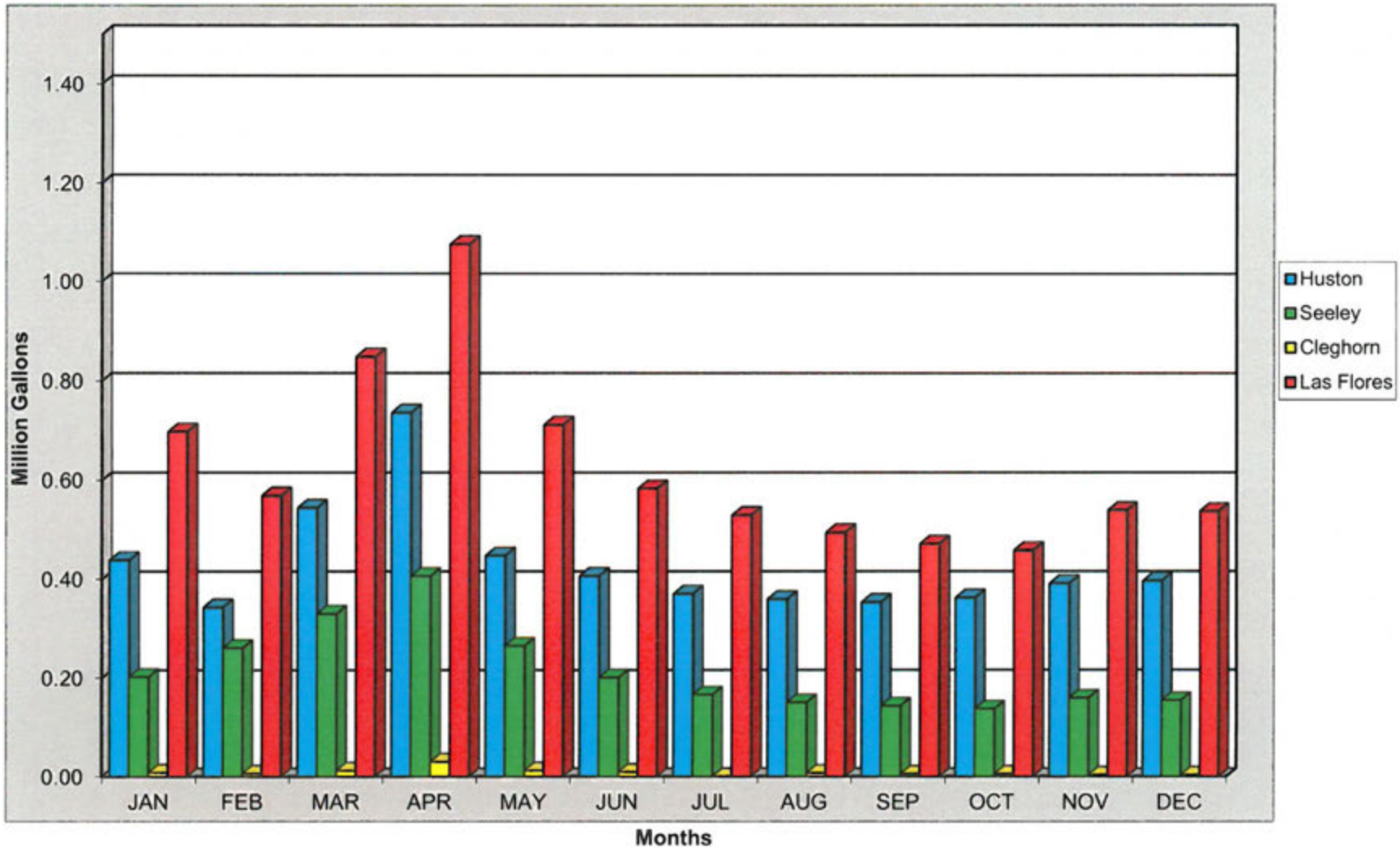
CRESTLINE SANITATION DISTRICT

Treatment Facility Maximum Instantaneous Flow Rate - 2020



CRESTLINE SANITATION DISTRICT

Treatment Facility Average Flow Rates - 2020



CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Effluent Monitoring - Treatment Facilities

Monthly Median / Averages

Year: **2020**

Site	Huston Creek		Seeley Creek		Cleghorn	
Sample	Disinfected Final Effluent		Disinfected Final Effluent		Disinfected Final Effluent	
Frequency	2 / week	daily	2 / week	daily	2 / week	daily
Requirement	23 / 100 ml *		23 / 100 ml *		23 / 100 ml *	
Purpose	D	M	D	M	D	M
Violations						
Test	Total Coilform	Chlorine Residual	Total Coilform	Chlorine Residual	Total Coilform	Chlorine Residual
month	**MPN**	**mg/l**	**MPN**	**mg/l**	**MPN**	**mg/l**
JANUARY	2	15.1	2	6.4	2	10.1
FEBRUARY	2	16.2	2	8.0	2	11.4
MARCH	2	11.8	2	6.2	2	10.7
APRIL	2	9.8	2	6.0	2	9.9
MAY	2	13.4	2	9.1	2	8.5
JUNE	2	14.7	2	8.2	2	7.5
JULY	2	15.9	2	7.4	2	7.4
AUGUST	2	14.9	2	10.0	2	10.3
SEPTEMBER	2	16.1	2	8.4	2	12.6
OCTOBER	2	18.0	2	10.3	2	10.4
NOVEMBER	2	16.9	2	8.6	2	13.8
DECEMBER	2	18.0	2	4.2	2	13.7

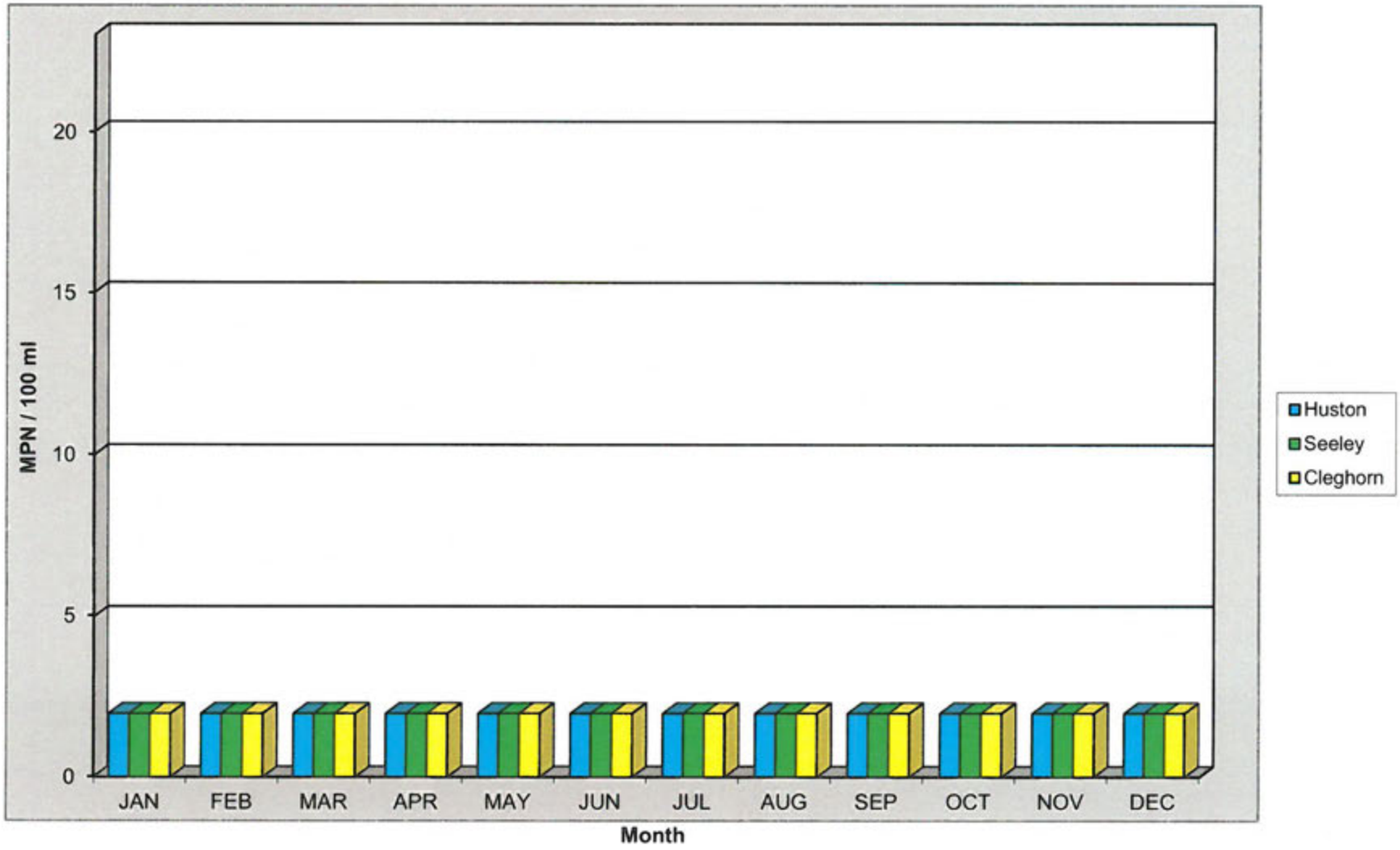
D - Sample has Effluent / Discharge Limitations

M - Sample has Effleuent Monitoring Requirements

* median does not exceed 23/100 milileters and does not exceed 240/100 milliters in any two consecutive samples

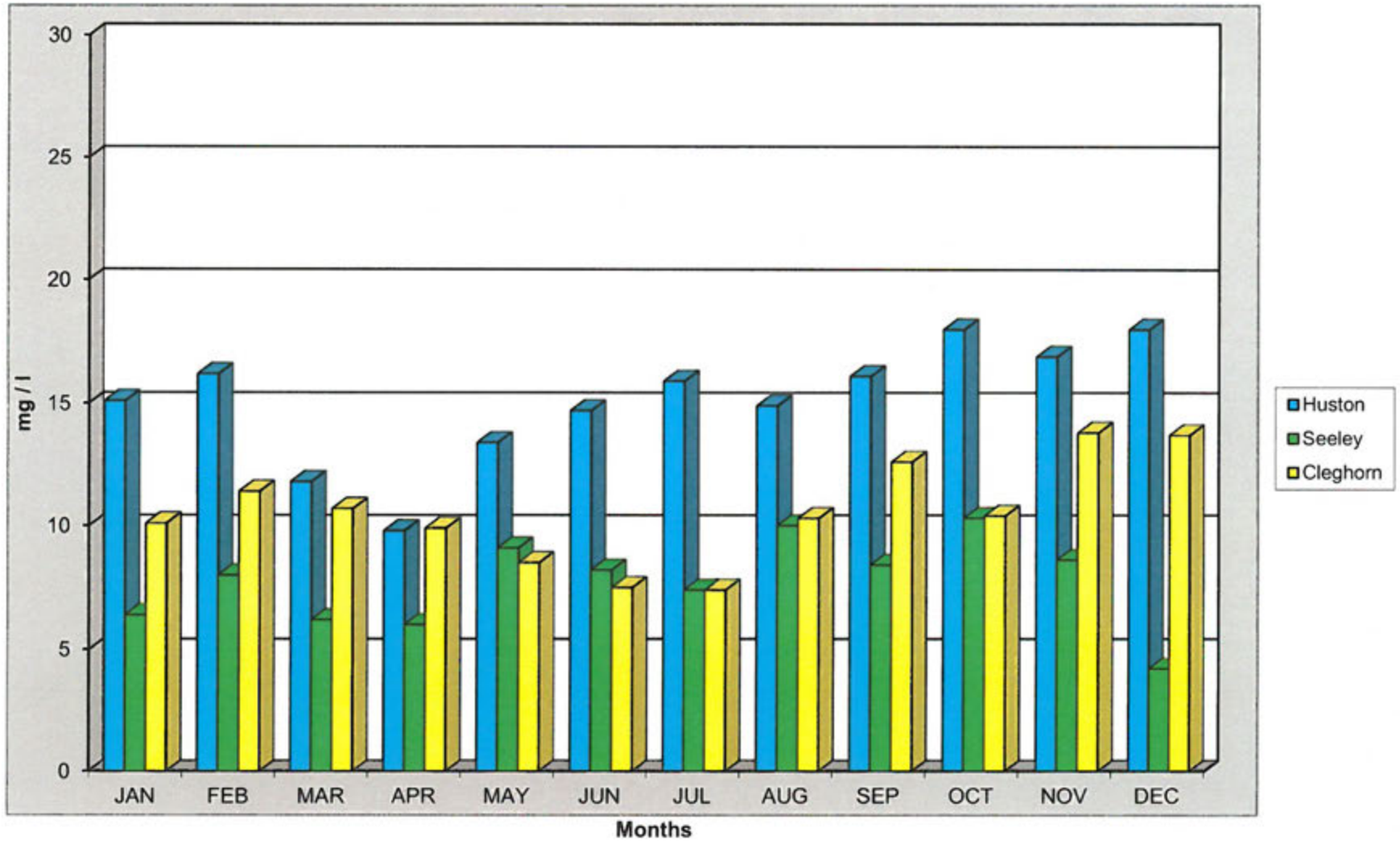
CRESTLINE SANITATION DISTRICT

Treatment Facilites - Final Effluent Total Coliform - 2020



CRESTLINE SANITATION DISTRICT

Treatment Facilities - Final Effluent Chlorine Residual - 2020



CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Effluent Monitoring

District Final Effluent - Monitoring Data

Las Flores Ranch Irrigation / Percolation

Year: **2020**

Sample Frequency	2 / Week	2 / Week	Weekly	Weekly	Weekly	2 / Month	2 / Month	2 / Month	2 / Month	Monthly	Monthly	Monthly
Violations												
Sample Type	*		D M	D M	D M	D M	M	D M	M	M	M	M
Maximum			0.5 ml/l		< 9	45.0		2.0		A	A	A
Mean/Minimum				> 1.0	> 6	30.0		1.0				
Median	23 / 100 *											
Test	Total Coliform	CL2 Res	Settleable Solids	D. O.	pH	BOD	COD	MBAS	Oil & Grease	TKN	NO3-N	NH3-N
Units	MPN	mg/l	ml/l	mg/l	units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Month												
JANUARY	2	5.9	<0.10	9.2	7.4	24.0	67.0	ND	ND	15.00	12.50	14.50
FEBRUARY	2	6.0	<0.10	9.0	7.6	22.3	67.5	ND	ND	15.20	10.40	14.80
MARCH	2	4.4	<0.10	8.4	7.4	21.5	66.5	ND	ND	17.00	11.80	16.40
APRIL	2	4.5	<0.10	9.1	6.9	18.7	60.0	ND	ND	12.80	9.60	12.00
MAY	2	3.5	<0.10	8.3	7.4	20.3	60.0	ND	ND	16.00	10.30	15.20
JUNE	2	2.8	<0.10	7.9	7.2	20.8	64.0	ND	ND	16.80	10.40	16.00
JULY	2	3.3	<0.10	7.7	7.4	22.2	68.0	ND	ND	14.80	10.60	14.20
AUGUST	2	3.3	<0.10	7.5	7.3	23.5	76.5	ND	ND	16.30	11.80	15.20
SEPTEMBER	2	3.5	<0.10	7.3	7.2	22.4	80.5	ND	ND	15.00	10.20	14.30
OCTOBER	2	5.3	<0.10	7.2	7.5	20.1	83.0	ND	ND	15.00	11.40	14.20
NOVEMBER	2	4.0	<0.10	7.2	7.2	21.5	79.0	ND	ND	16.30	6.80	15.00
DECEMBER	2	5.0	<0.10	8.3	7.2	22.4	75.0	ND	ND	14.50	10.20	14.20
AVERAGES		4.3	< 0.10	8.1	7.3	21.6	70.6	ND	ND	15.39	10.50	14.67

D - Sample has Effluent / Discharge Limitations

M - Sample has Effluent Monitoring Requirements

A - Result not an average (only one sample collected per month)

* median does not exceed 23/100 milileters and does not exceed 240/100 milliters in any two consecutive samples

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Effluent Monitoring

District Final Effluent - Monitoring Data

Las Flores Ranch Irrigation / Percolation

Year: **2020**

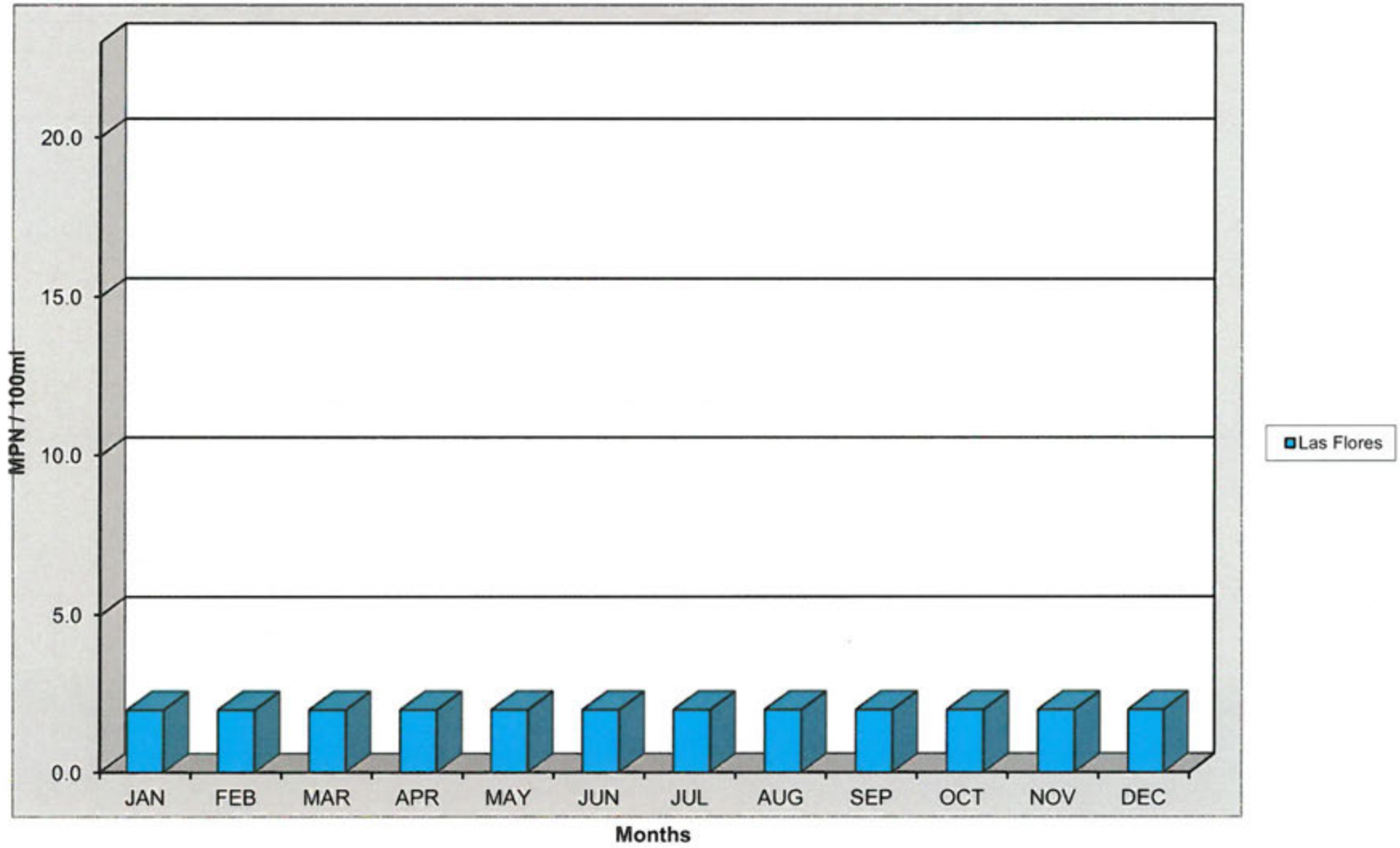
Sample Frequency	Semiannual Testing						Annual Testing				
Violations											
Sample Type	M	M	M	M	M	M	M	M	M	M	M
Mean/Minimum	A	A	A	A	A	A	A	A	A	A	A
Median											
Test	TDS	Chloride	Sodium	Sulfate	Boron	Flouride	Total Cyanides	Total Phenols	Base/Neutral/Acid Extractable Organics	Heavy Metals	Total Petroleum Hydrocarbons
Units	mg/l	mg/l	ml/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l
Month											
JANUARY											
FEBRUARY											
MARCH	480.0	113.0	93.0	112.0	0.17	0.52					
APRIL											
MAY											
JUNE											
JULY											
AUGUST											
SEPTEMBER							**A**	**A**	**A**	**A**	**A**
OCTOBER											
NOVEMBER											
DECEMBER											

D - Sample has Effluent / Discharge Limitations M - Sample has Effleuent Monitoring Requirements

A - For Sample Results see Appendix " A "

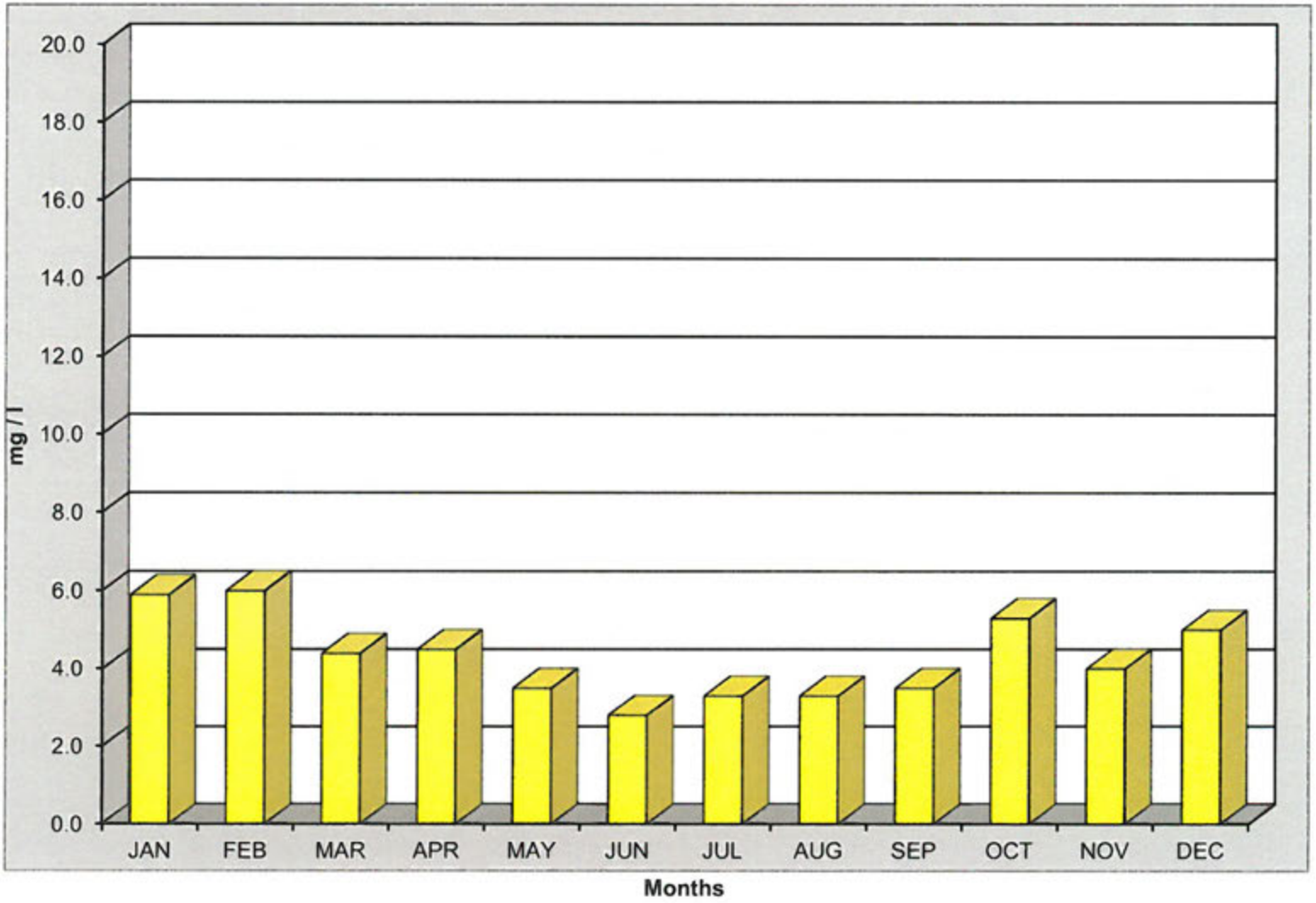
CRESTLINE SANITATION DISTRICT

District Final Effluent - Median Total Coliform - 2020



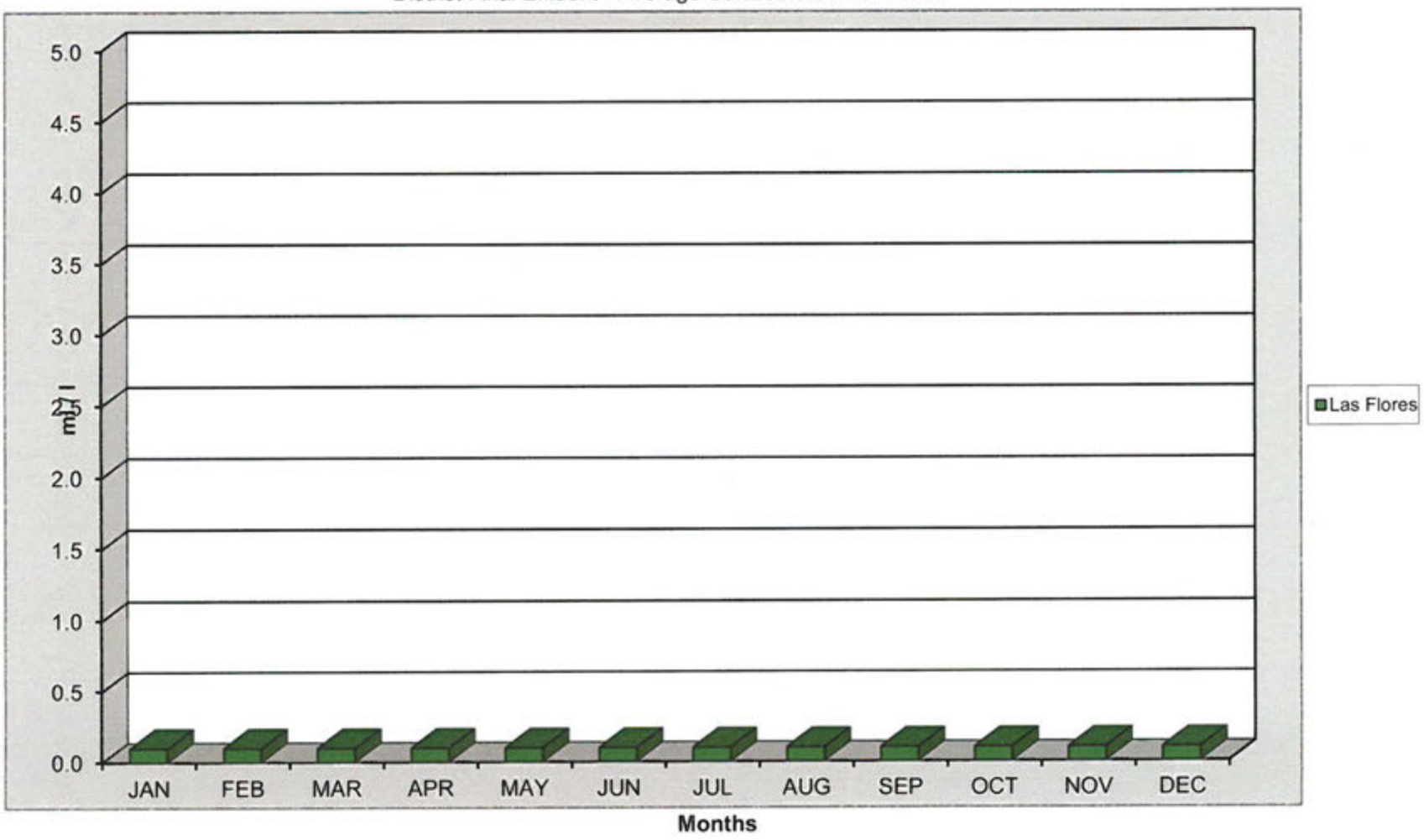
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Chlorine Residual - 2020



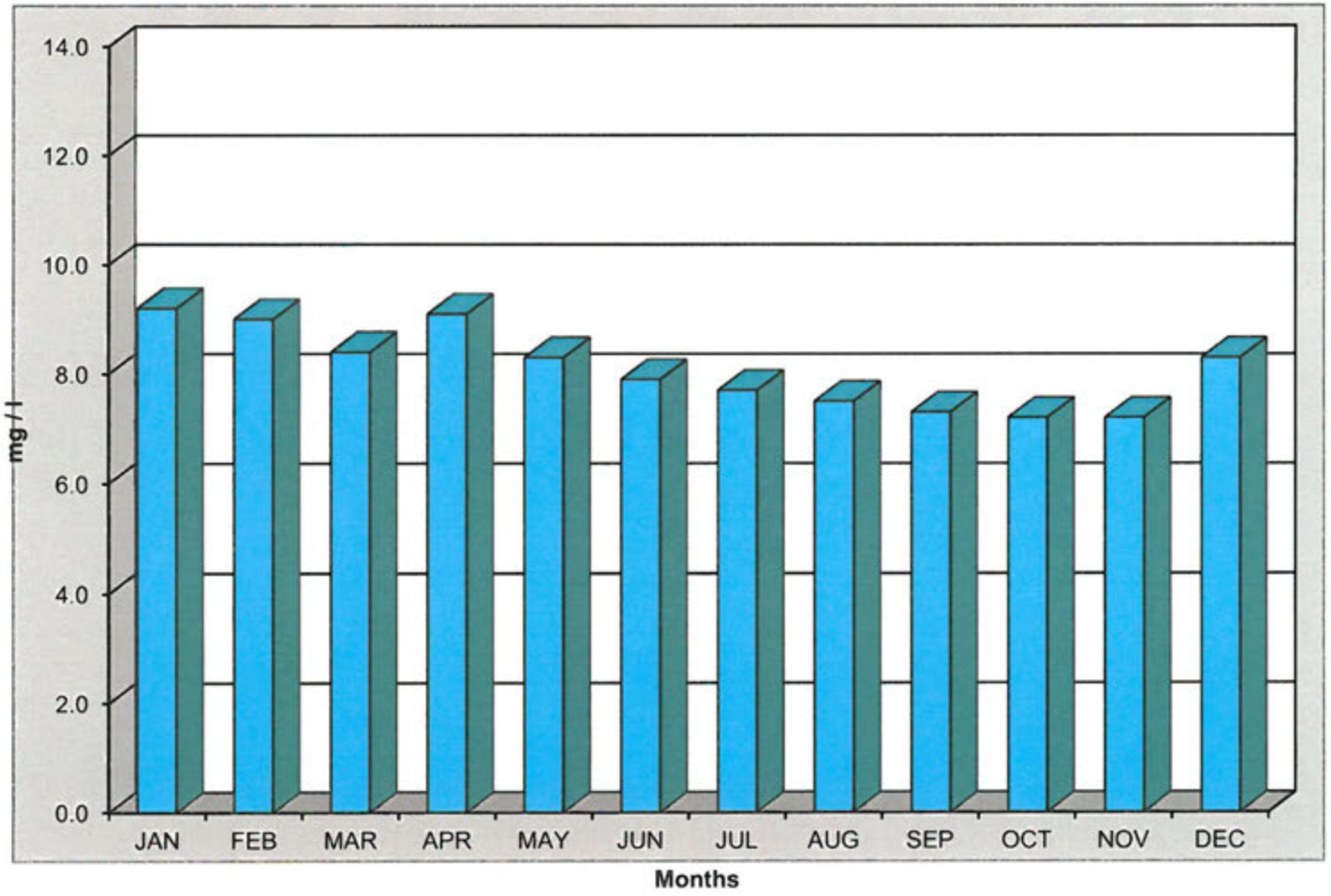
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Settleable Solids - 2020



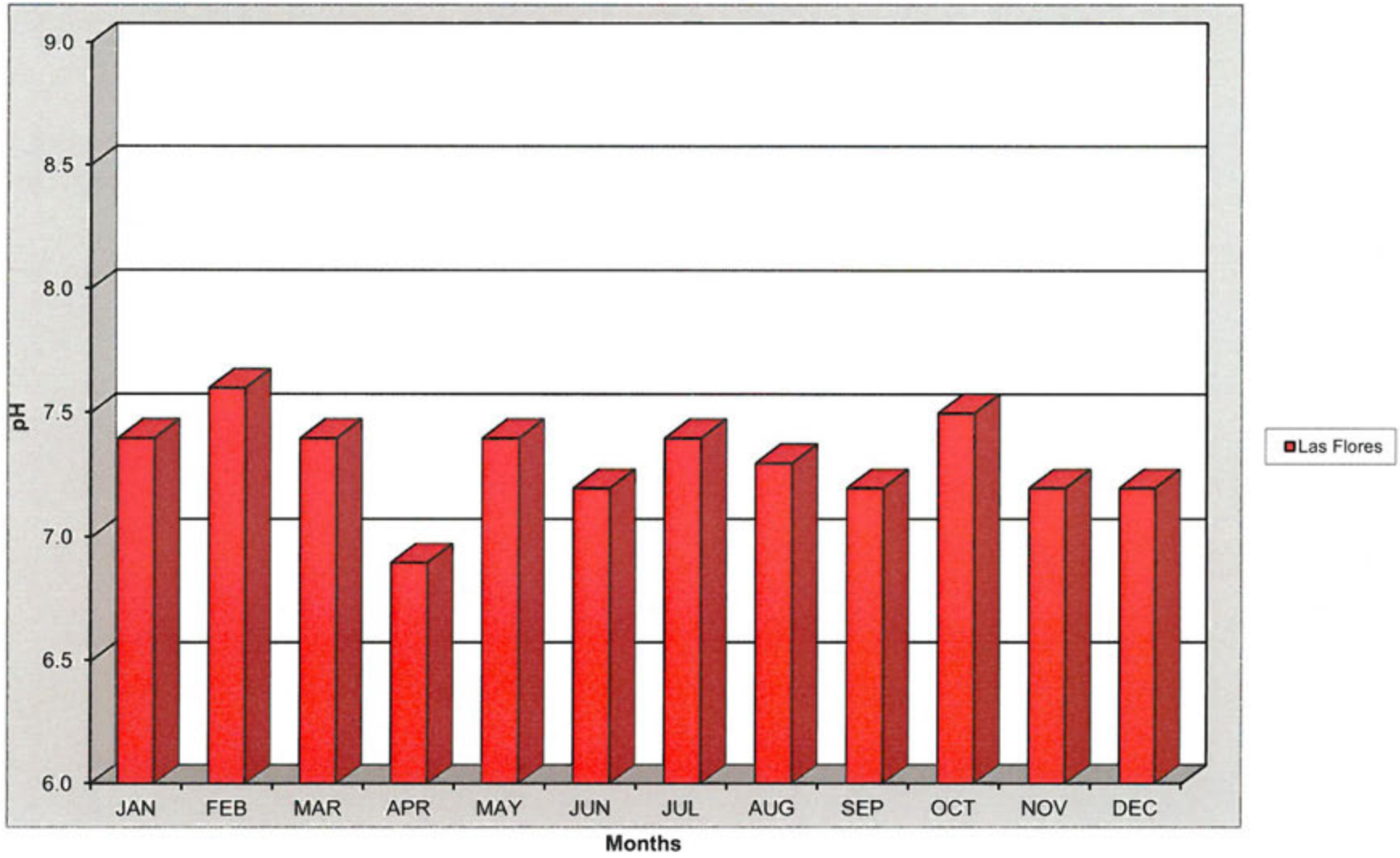
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Dissolved Oxygen - 2020



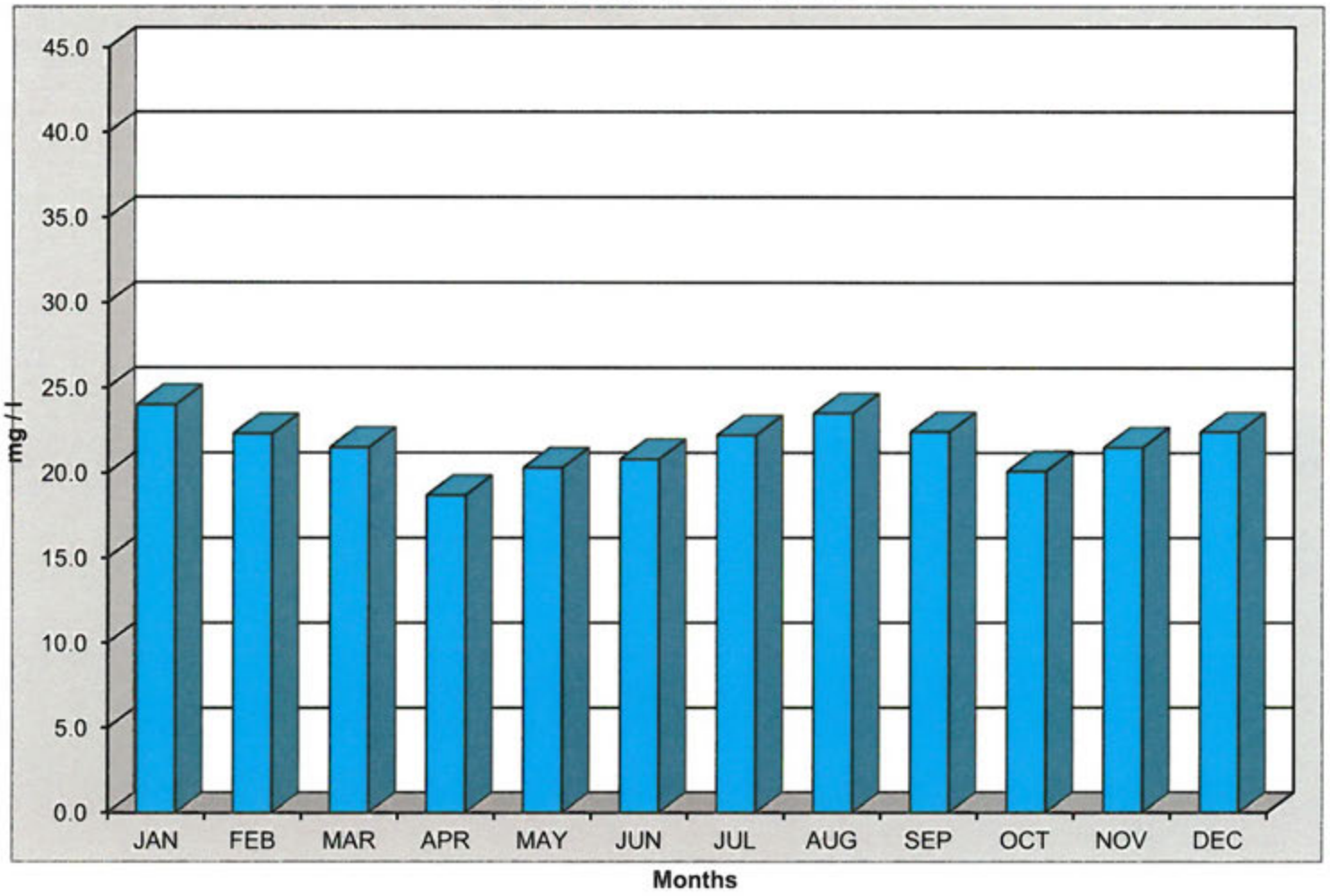
CRESTLINE SANITATION DISTRICT

District Final Effluent - pH - 2020



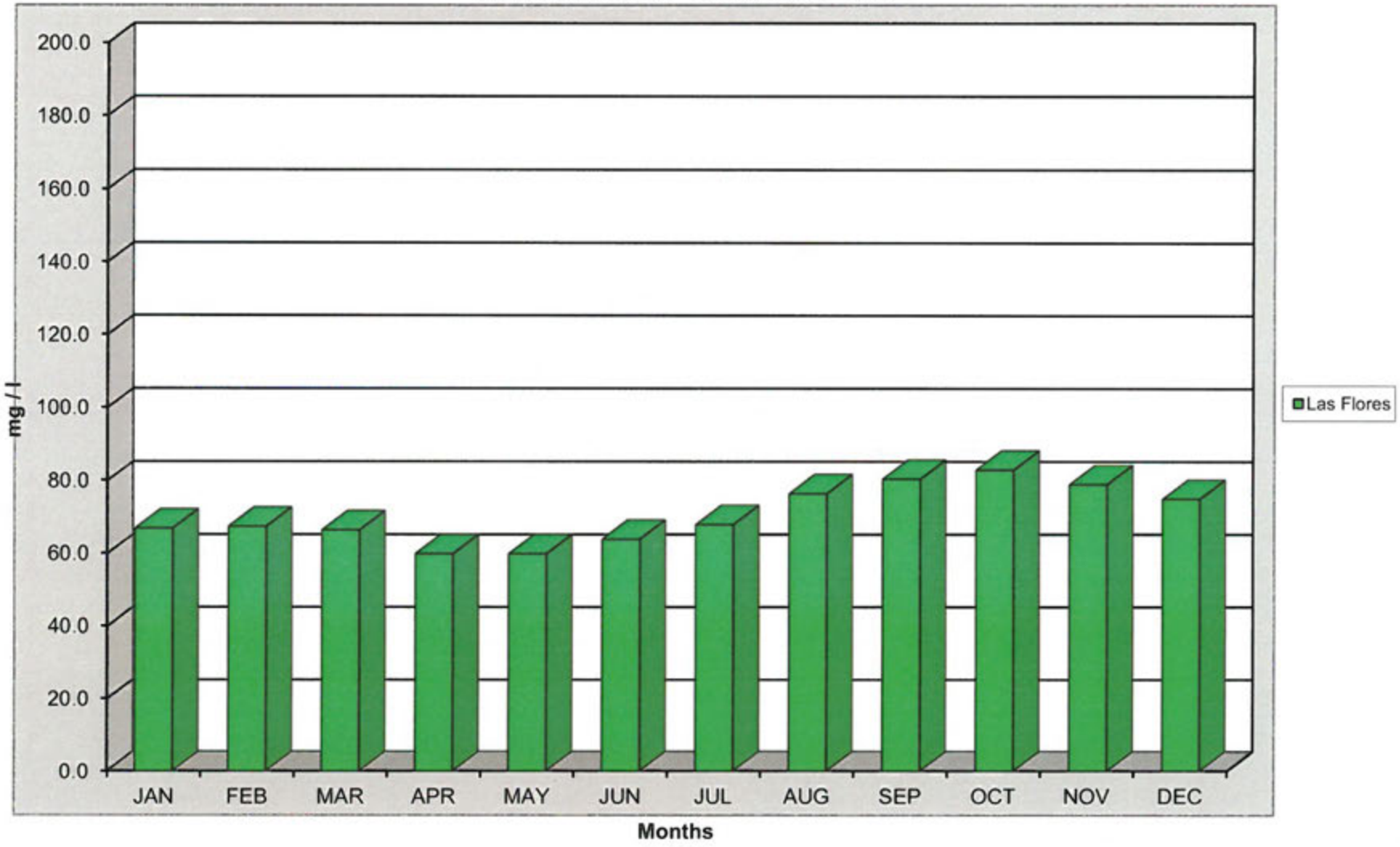
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average BOD - 2020



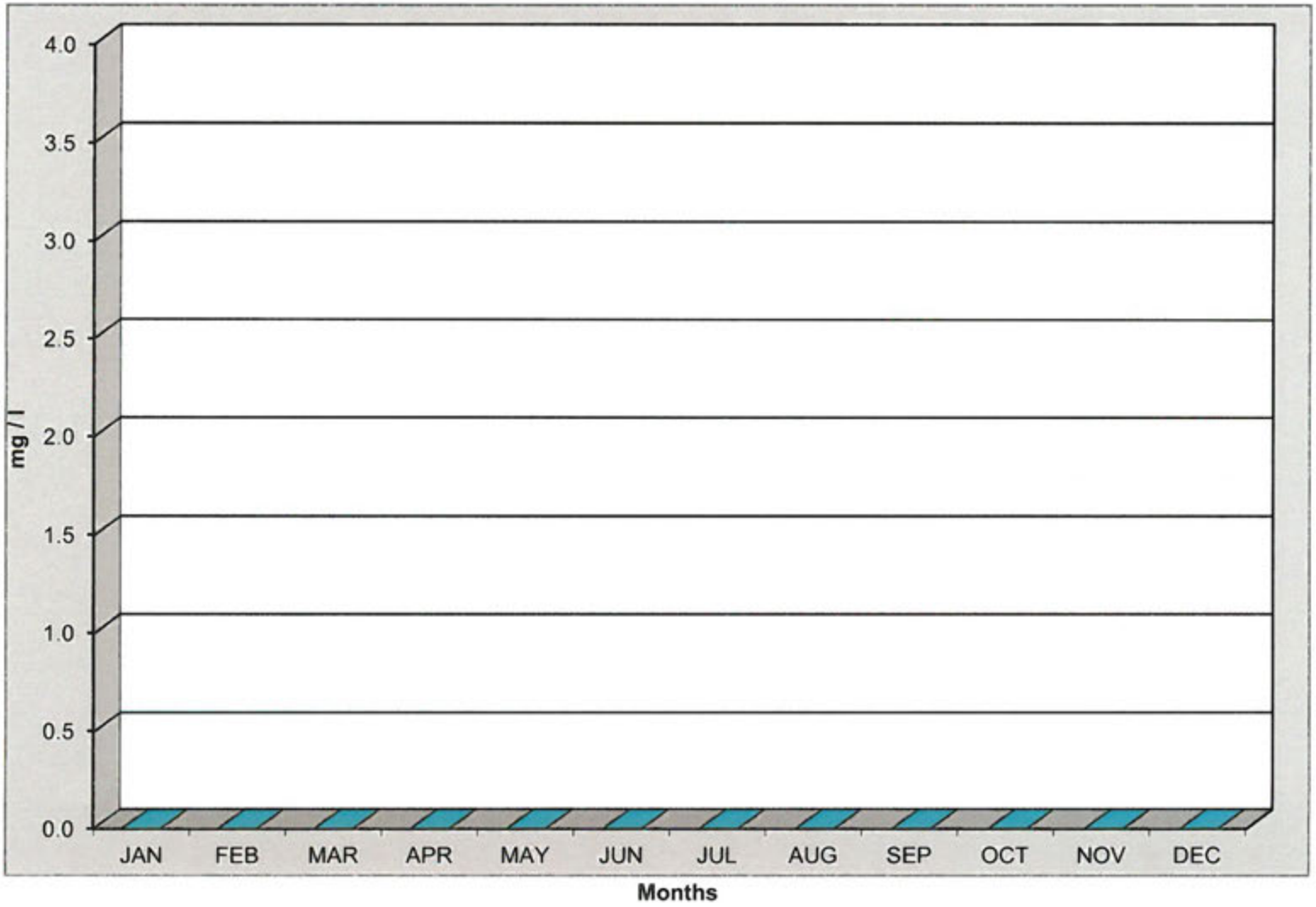
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average COD - 2020



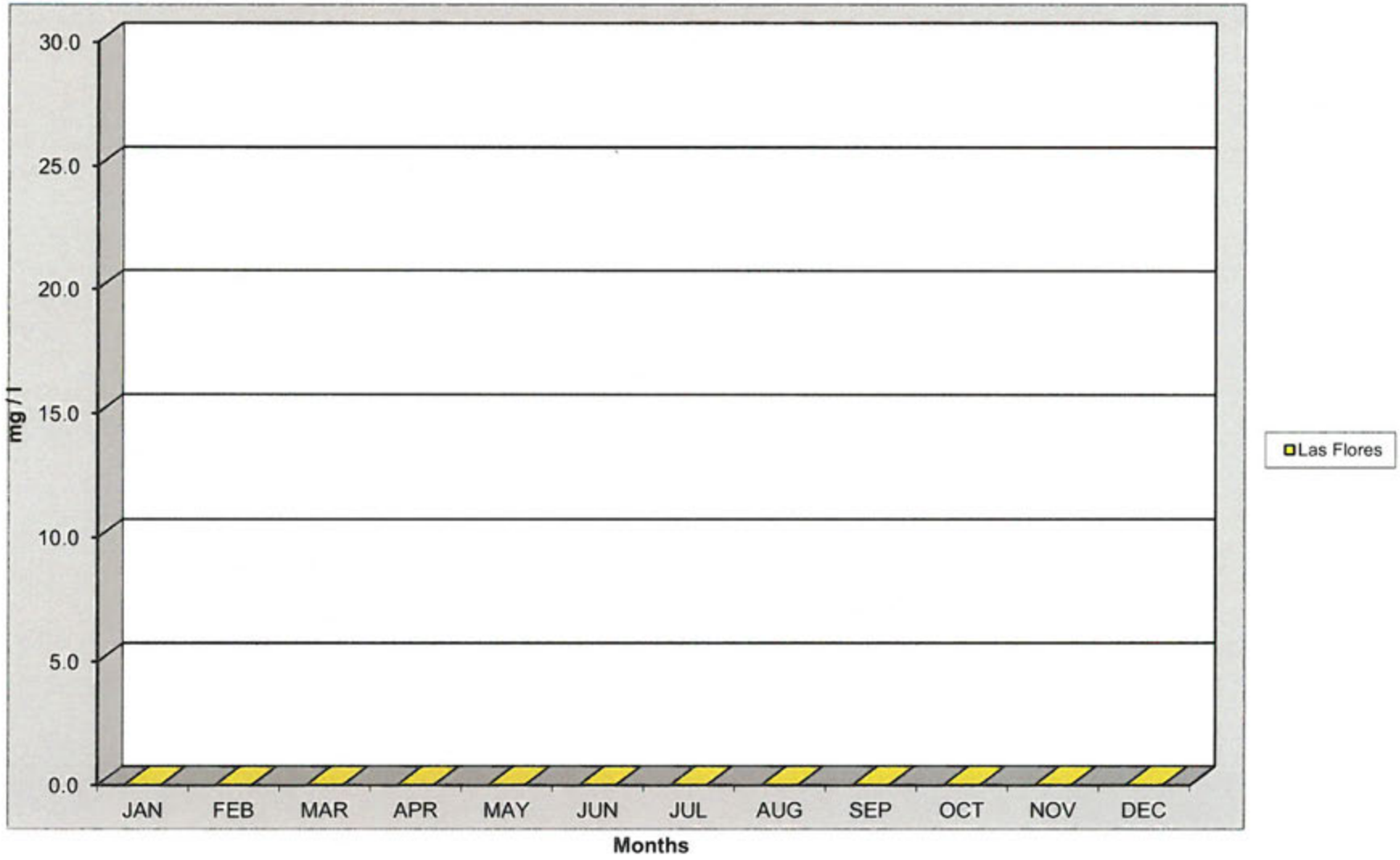
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average MBAS - 2020



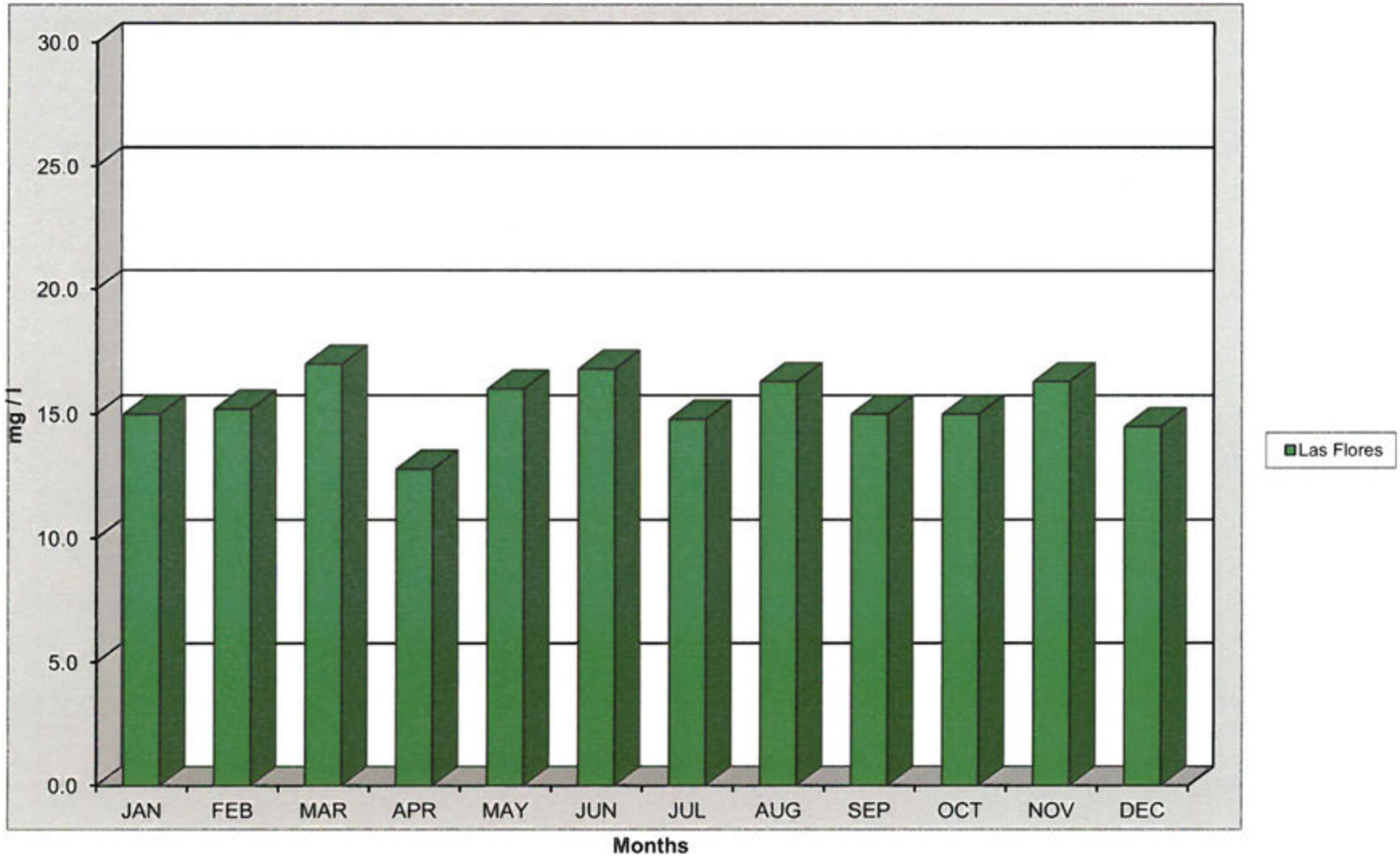
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Oil & Grease - 2020



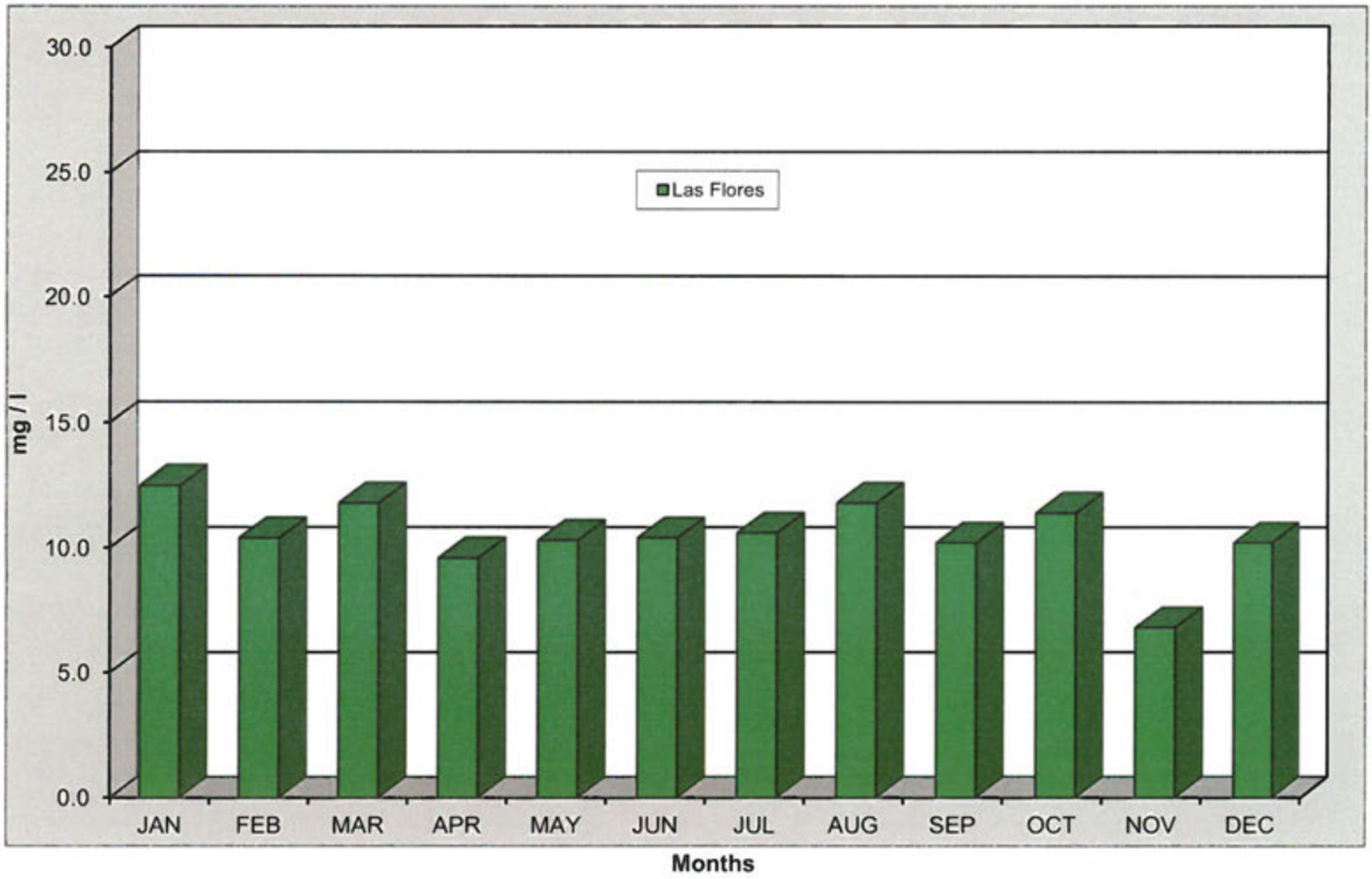
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Kjeldahl Nitrogen - 2020



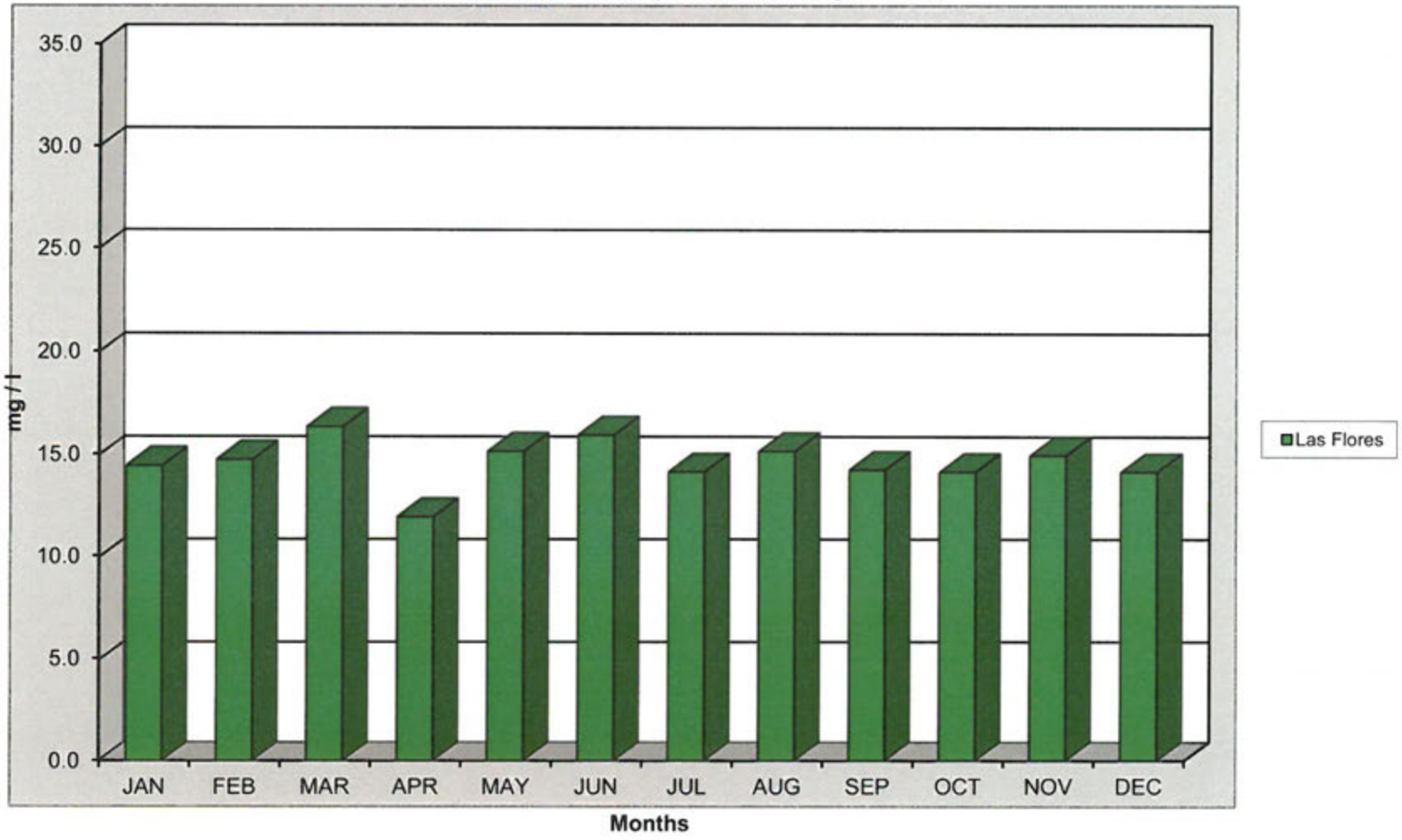
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Nitrate Nitrogen -2020



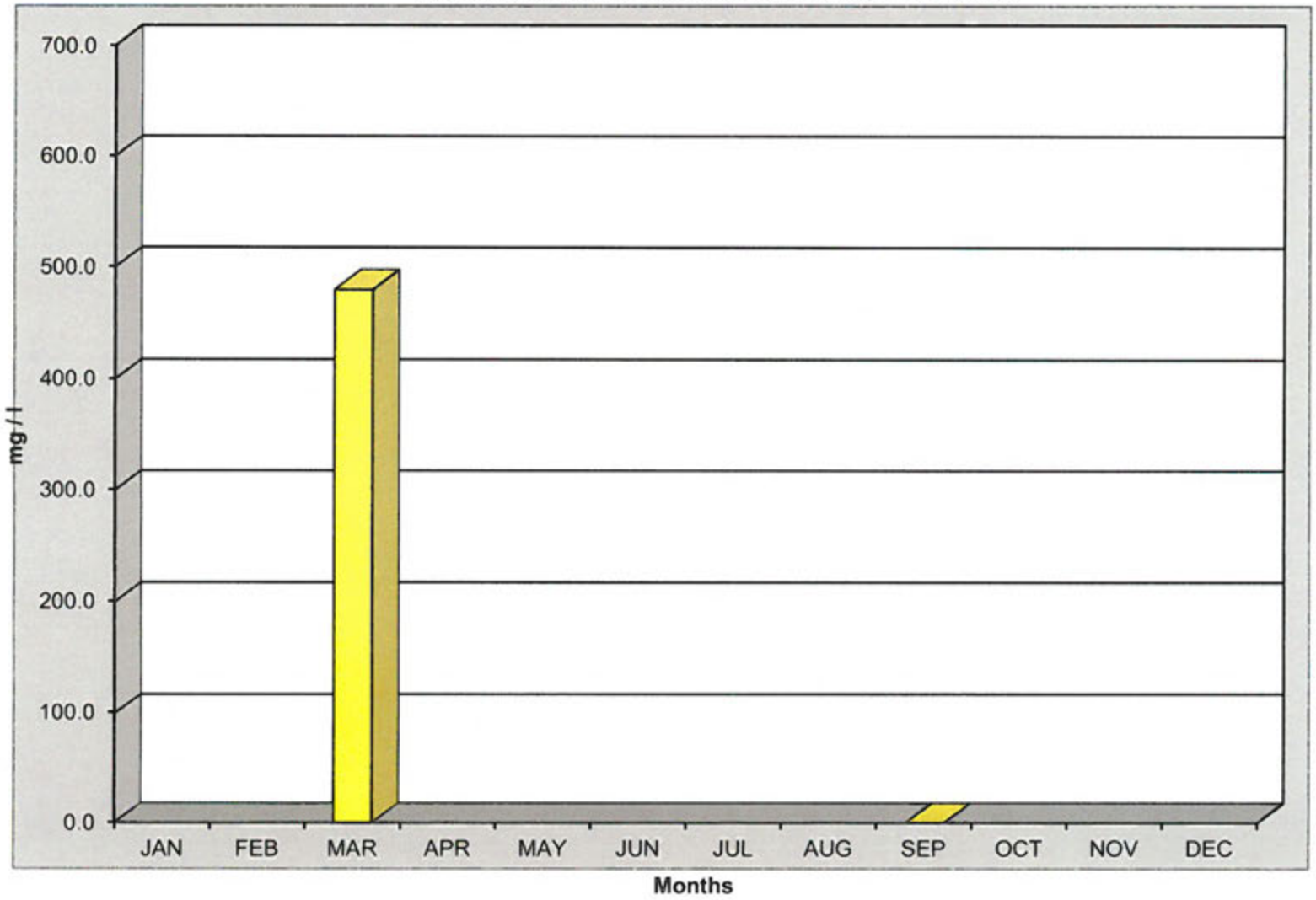
CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Ammonia Nitrogen - 2020



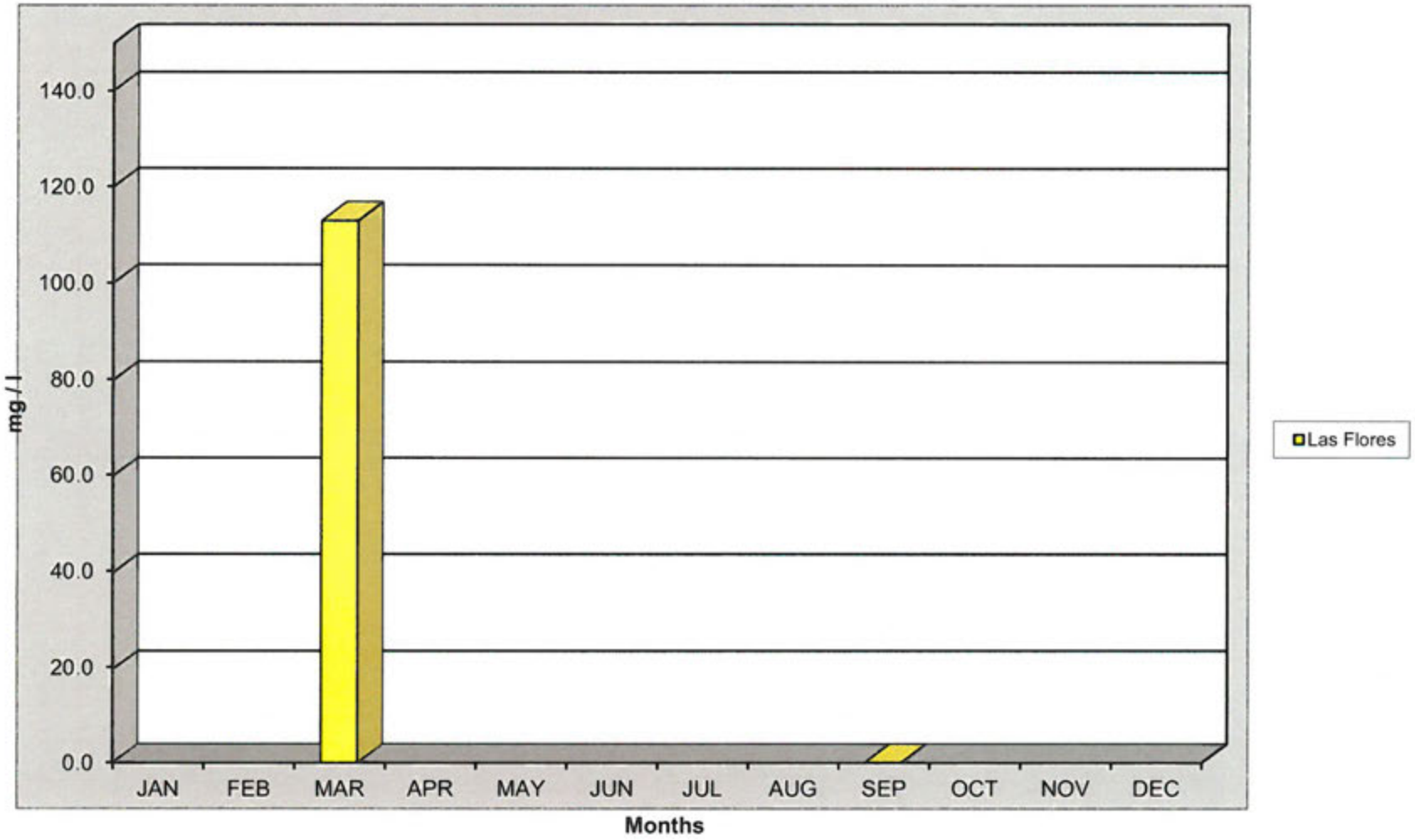
CRESTLINE SANITATION DISTRICT

District Final Effluent - Semi & Annual Testing - TDS - 2020



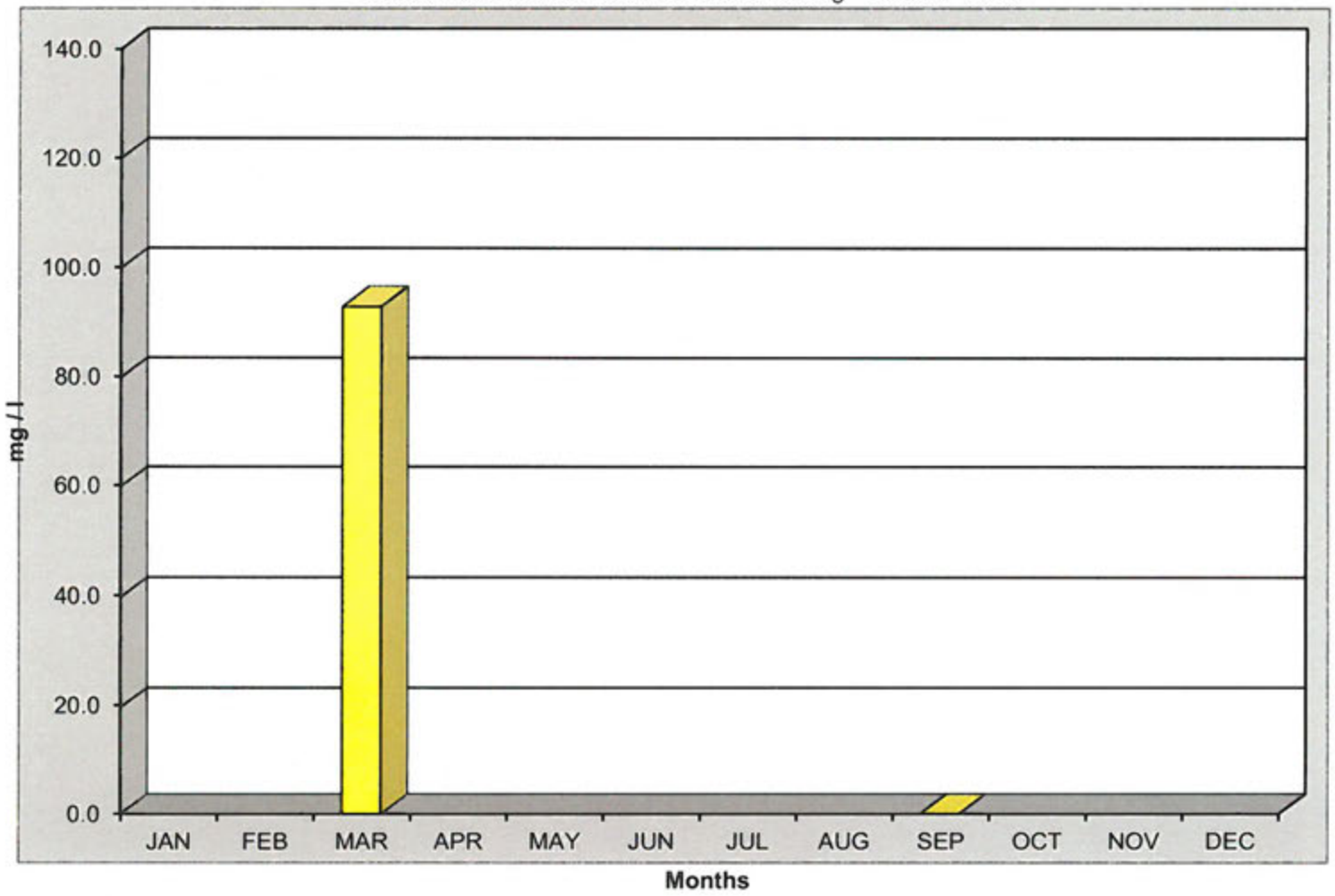
CRESTLINE SANITATION DISTRICT

District Final Effluent - Semi & Annual Testing - Chloride - 2020



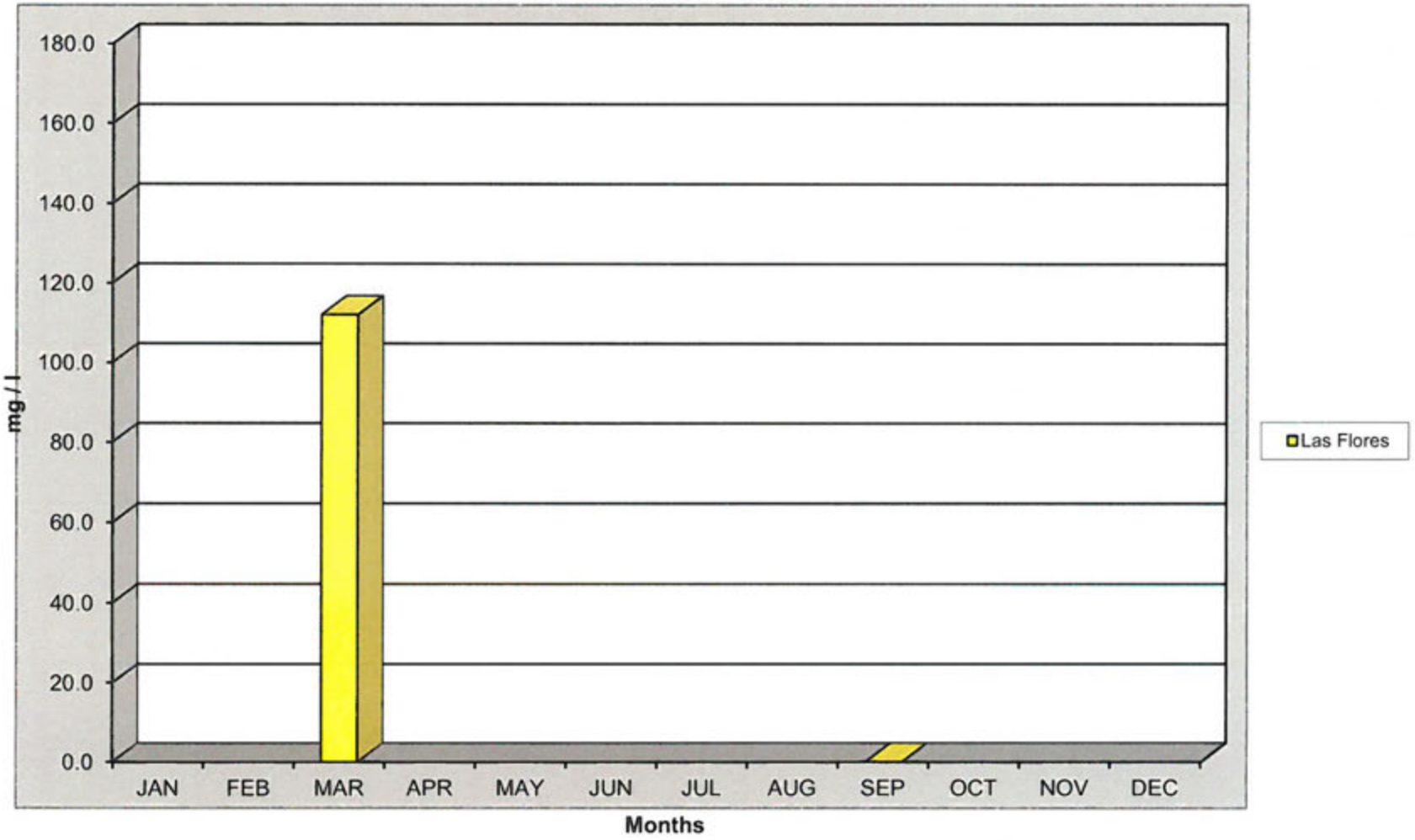
CRESTLINE SANITATION DISTRICT

District Final Effluent - Semi & Annual Testing - Sodium - 2020



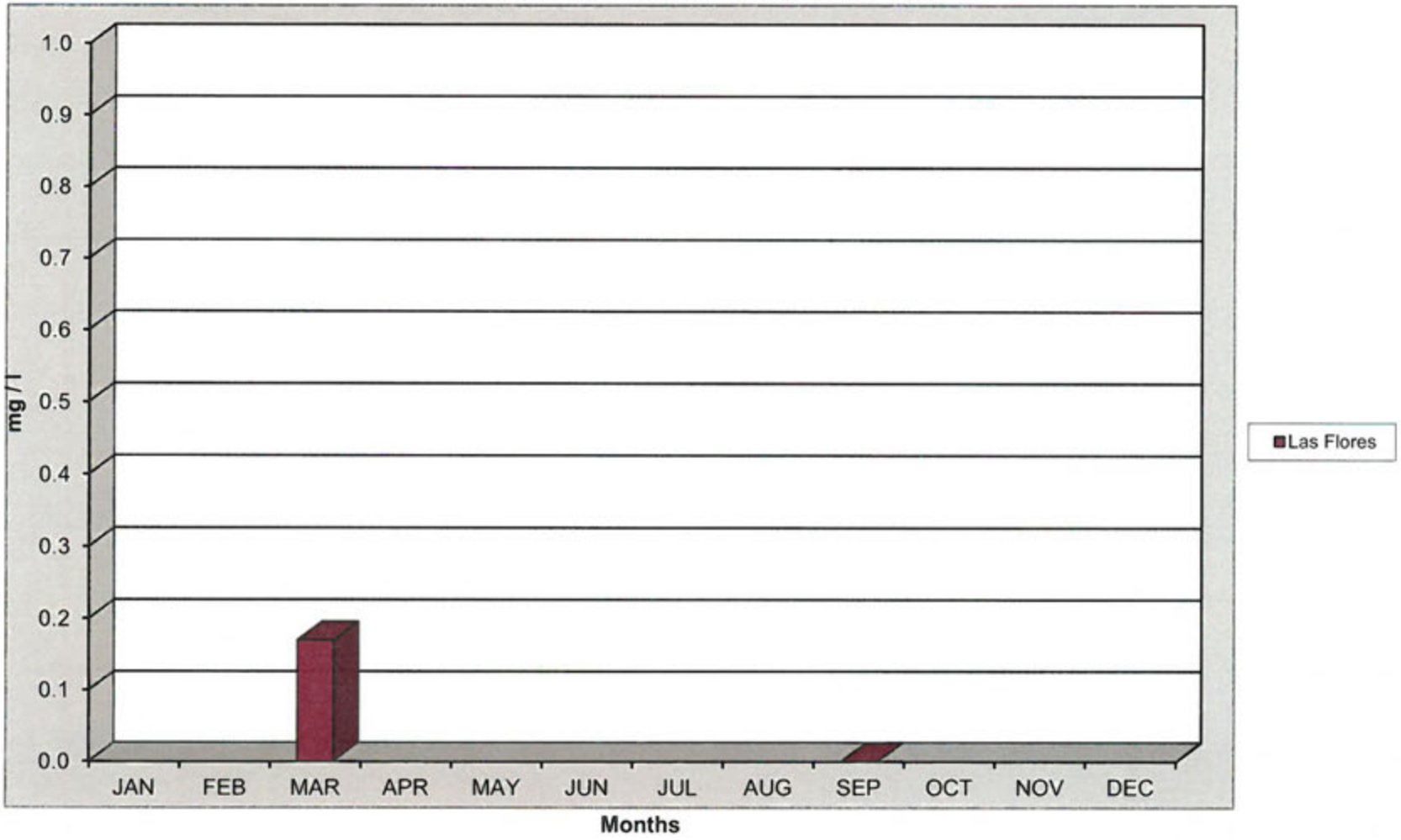
CRESTLINE SANITATION DISTRICT

District Final Effluent - Semi & Annual Testing - Sulfate - 2020



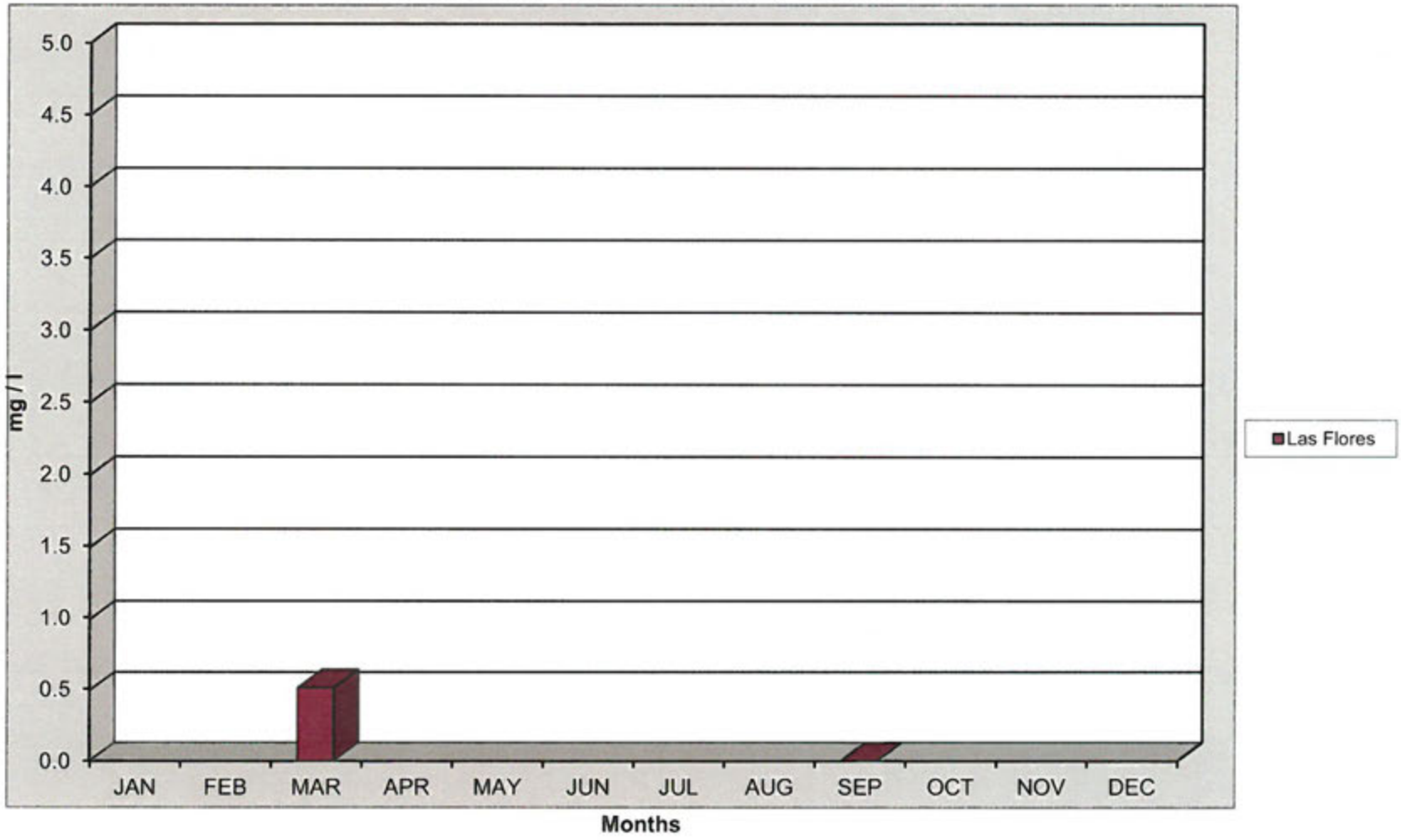
CRESTLINE SANITATION DISTRICT

District Final Effluent - Semi & Annual Testing - Boron - 2020



CRESTLINE SANITATION DISTRICT

District Final Effluent - Semi & Annual Testing - Flouride - 2020



CRESTLINE SANITATION DISTRICT
ANNUAL REPORT

Sludge Monitoring

Year: **2020**

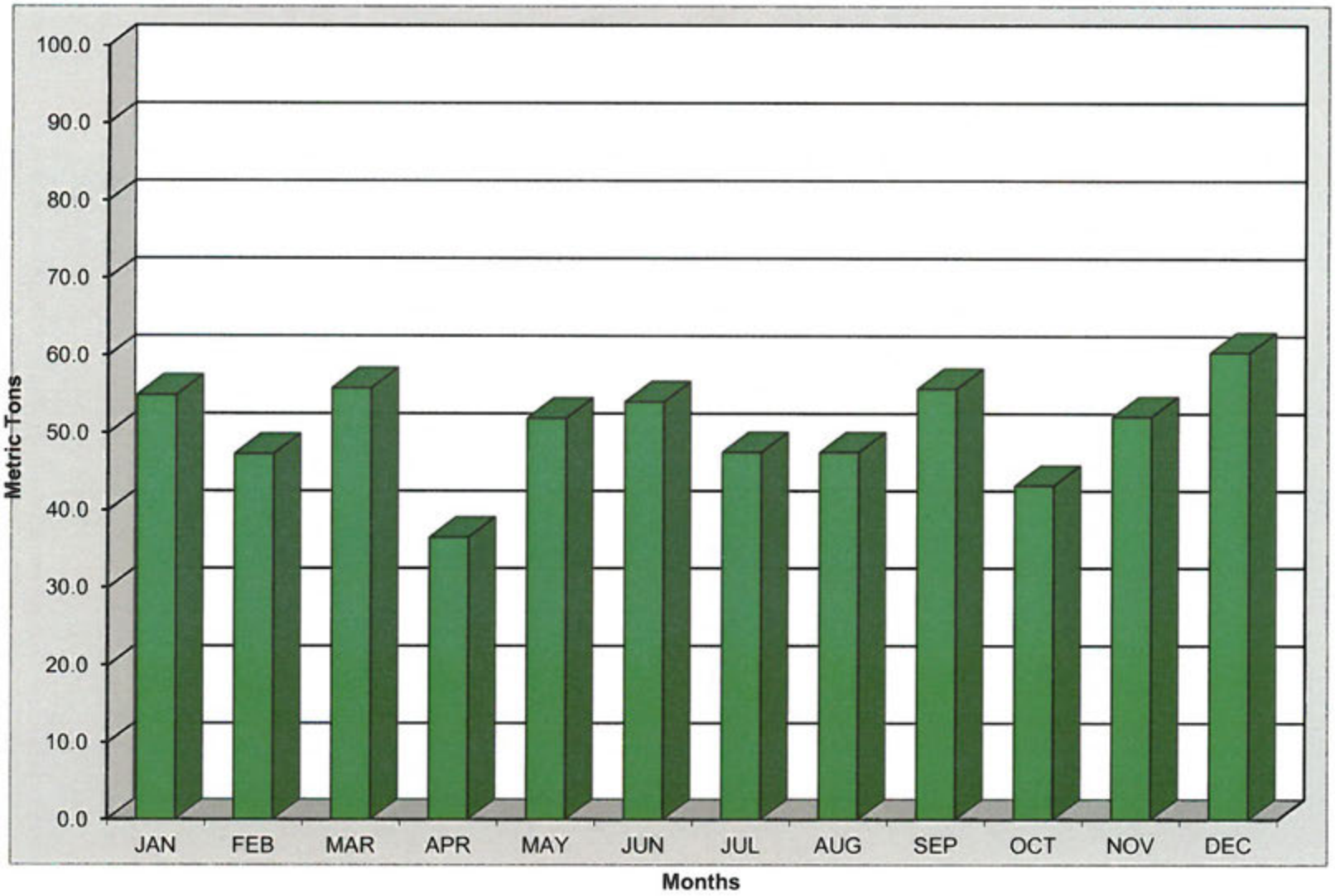
Month	Sludge Generated	Sludge Removed from Site	Sludge Disposal Method	Sludge Stockpiled on Site
January	55.0 tons	55.0 Tons	(a)	0.0 Tons
February	47.4 tons	47.4 Tons	(a)	0.0 Tons
March	55.9 tons	55.9 Tons	(a)	0.0 Tons
April	36.6 tons	36.6 Tons	(a)	0.0 Tons
May	52.0 tons	52.0 Tons	(a)	0.0 Tons
June	54.1 tons	54.1 Tons	(a)	0.0 Tons
July	47.6 tons	47.6 Tons	(a)	0.0 Tons
August	47.6 tons	47.6 Tons	(a)	0.0 Tons
September	55.8 tons	55.8 Tons	(a)	0.0 Tons
October	43.3 tons	43.3 Tons	(a)	0.0 Tons
November	52.2 tons	52.2 Tons	(a)	0.0 Tons
December	60.5 tons	60.5 Tons	(a)	0.0 Tons
TOTAL	**608.0** tons	**608.0** Tons	(a)	**0.0** Tons

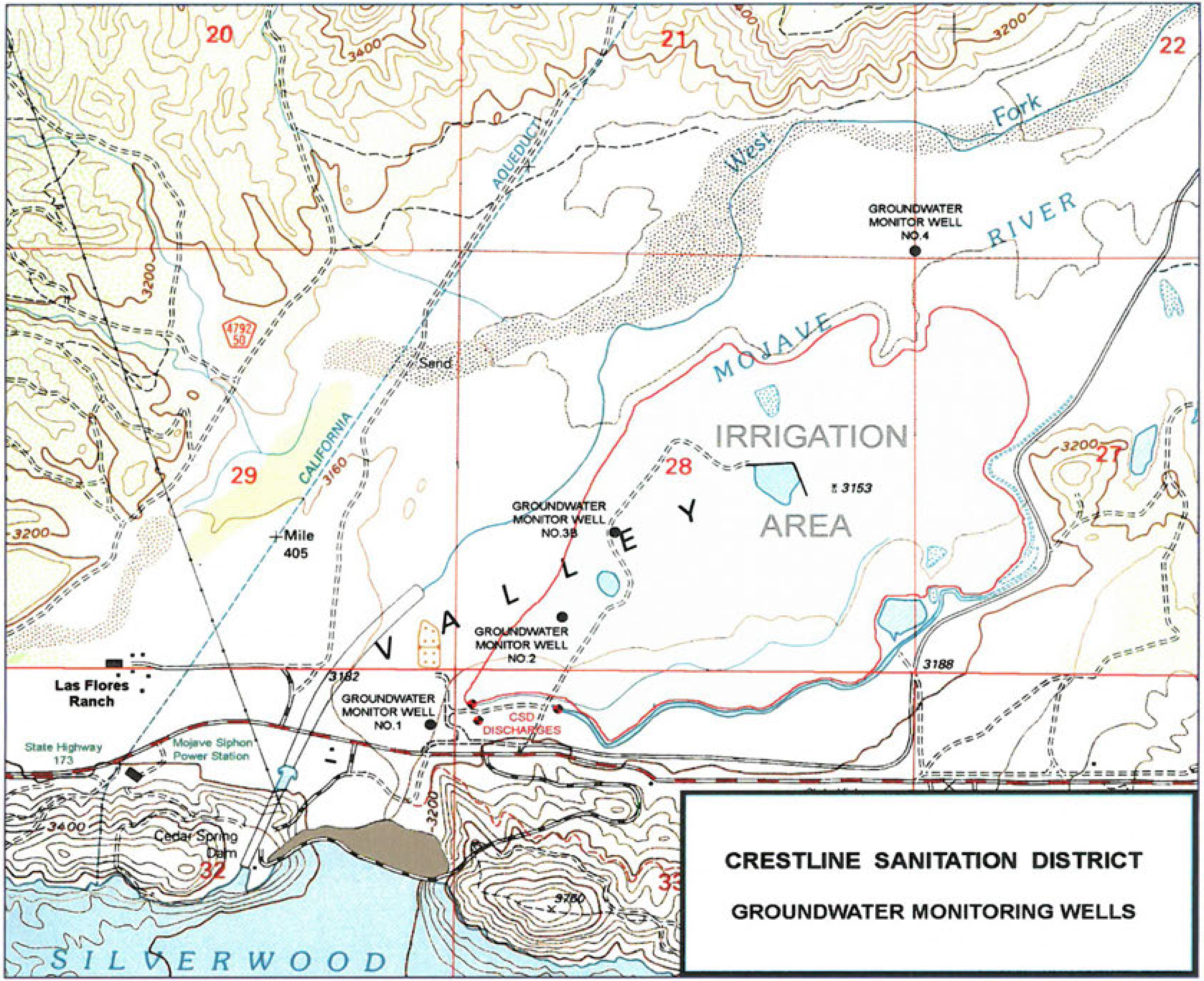
(a) Sludge is collected from Crestline's three treatment plants and Pilot Rock, mixed and pressed at the Huston Creek Treatment Plant. After pressing; the solids are disposed of at One Stop Landscape (13024 San Timoteo Canyon Road, Redlands, CA 92373) for composting and eventual recycling.

Note: *Laboratory Analysis of the sludge is not required at this time in recognition that there are no significant industrial waste imputs to the sewer system, and because sludge sampling is required by the disposal facility that accepts the Discharger's sludge. The Regional Board may require qualitative labroratory testing of the sludge if sludge disposal practices and/or locations, as disclosed in the waste discharge requirements, are altered. (Monitoring and Reporting Program 94-57)*

CRESTLINE SANITATION DISTRICT

Annual Sludge Production per Month - 2020





CRESTLINE SANITATION DISTRICT

GROUNDWATER MONITORING WELLS

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Pasture Monitoring Well Number 1

Laboratory Monitoring Data Year: **2020**

Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	
Sample Type	A	A	A	A	A	A	A	A	A	
Sample	**Sulfate**	**Sodium**	**MBAS**	**Chloride**	**TDS**	**TKN**	**NH3-N**	**NO3-N**	**Water Depth**	**Well**
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	feet *	**Number**
JANUARY										
FEBRUARY										
MARCH	138.0	89.0	ND	19.0	285	0.20	0.19	1.80	3155.9	1
APRIL										
MAY										
JUNE	140.0	92.0	ND	19.2	300	0.27	0.24	1.70	3154.9	1
JULY										
AUGUST										
SEPTEMBER	110.0	83.0	ND	31.6	290	0.27	0.25	2.00	3150.5	1
OCTOBER										
NOVEMBER										
DECEMBER	125.0	95.0	ND	18.0	270	0.20	0.19	1.50	3146.3	1

A - Monitoring Requirement

* = Depth in feet from surface to groundwater

Lab results of ND (none detected) entered as 0.0 for graphing purpose

CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Number 2
Laboratory Monitoring Data

Year: **2020**

Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	
Sample Type	A	A	A	A	A	A	A	A	A	
Sample	**Sulfate**	**Sodium**	**MBAS**	**Chloride**	**TDS**	**TKN**	**NH3-N**	**NO3-N**	**Water Depth**	**Well**
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	feet *	**Number**
JANUARY										
FEBRUARY										
MARCH	102.0	89.0	ND	104.0	410	0.28	0.26	7.80	3156.9	2
APRIL										
MAY										
JUNE	108.0	84.0	ND	114.0	440	0.32	0.30	8.10	3155.7	2
JULY										
AUGUST										
SEPTEMBER	91.0	93.0	ND	121.0	450	0.23	0.22	6.50	3152.2	2
OCTOBER										
NOVEMBER										
DECEMBER	104.0	100.0	ND	106.0	430	0.29	0.27	7.90	3148.3	2

A - Monitoring Requirement

* = Depth in feet from surface to groundwater

Lab results of ND (none detected) entered as 0.0 for graphing purpose

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Pasture Monitoring Well Number 3

Laboratory Monitoring Data Year: **2020**

Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	
Sample Type	A	A	A	A	A	A	A	A	A	
Sample	**Sulfate**	**Sodium**	**MBAS**	**Chloride**	**TDS**	**TKN**	**NH3-N**	**NO3-N**	**Water Depth**	**Well**
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	feet *	**Number**
JANUARY										
FEBRUARY										
MARCH	105.0	89.0	ND	109.0	450	0.21	0.20	6.10	3152.6	3
APRIL										
MAY										
JUNE	109.0	81.0	ND	116.0	460	0.30	0.27	6.40	3151.3	3
JULY										
AUGUST										
SEPTEMBER	74.0	89.0	ND	118.0	430	0.21	0.19	3.30	3149.3	3
OCTOBER										
NOVEMBER										
DECEMBER	94.2	88.0	ND	98.6	410	0.31	0.30	6.10	3145.4	3

A - Monitoring Requirement

* = Depth in feet from surface to groundwater

Lab results of ND (none detected) entered as 0.0 for graphing purpose

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Pasture Monitoring Well Number 4

Laboratory Monitoring Data Year: **2020**

Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	
Sample Type	A	A	A	A	A	A	A	A	A	
Sample	**Sulfate**	**Sodium**	**MBAS**	**Chloride**	**TDS**	**TKN**	**NH3-N**	**NO3-N**	**Water Depth**	**Well**
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	feet *	**Number**
JANUARY										
FEBRUARY										
MARCH	114.0	67.0	ND	156.0	570	0.30	0.28	4.10	3112.1	4
APRIL										
MAY										
JUNE	115.0	53.0	ND	112.0	510	0.33	0.31	4.80	3110.8	4
JULY										
AUGUST										
SEPTEMBER	85.0	59.0	ND	112.0	490	0.15	0.13	3.90	3110.4	4
OCTOBER										
NOVEMBER										
DECEMBER	107.0	60.0	ND	144.0	530	0.37	0.35	4.20	3107.5	4

A - Monitoring Requirement

* = Depth in feet from surface to groundwater

Lab results of ND (none detected) entered as 0.0 for graphing purpose

CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Pasture Monitoring Wells
Labroratory Monitoring Data

Annual Samples

2020

Frequency	Annual			
Sample Type	A	A	A	
Sample	**Purgable Halocarbons ***	**Purgable Aromatics**	**Base/Neutral/Acid Extractable Organics**	**Well Number**
Units	ug/l	ug/l	ug/l	
Month				
September	**B**	**B**	**B**	**1**
September	**B**	**B**	**B**	**2**
September	**B**	**B**	**B**	**3**
September	**B**	**B**	**B**	**4**

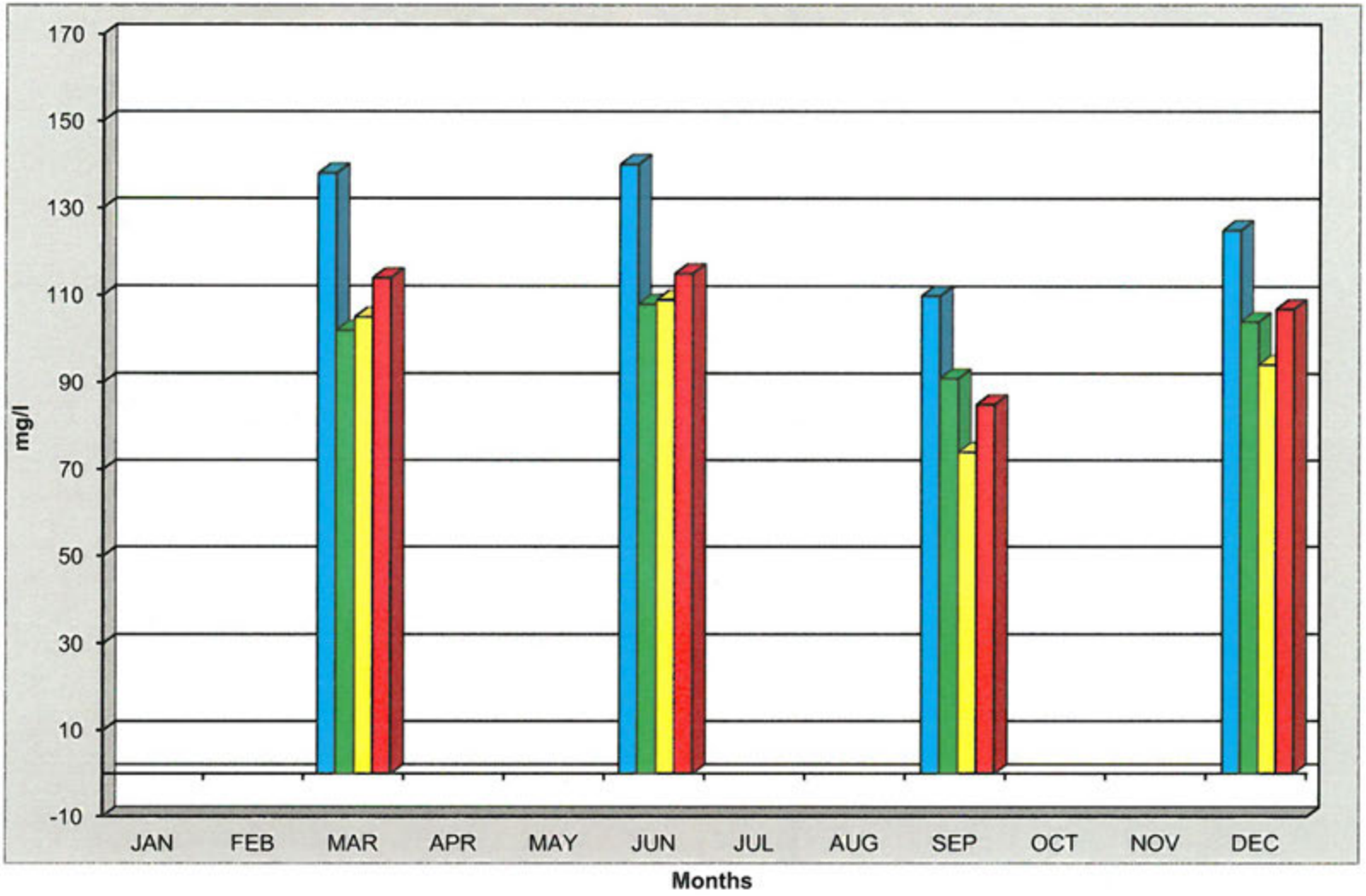
A - Monitoring Requirement

B - For Sample Results see Appendix "B"

* Analysis shall be conducted for those substances included on the EPA list of priority pollutants and all other toxic substances known to be discharged to the Discharger's system using EPA test methods 603, 608, 624, 625 and other appropriate tests for heavy metals.

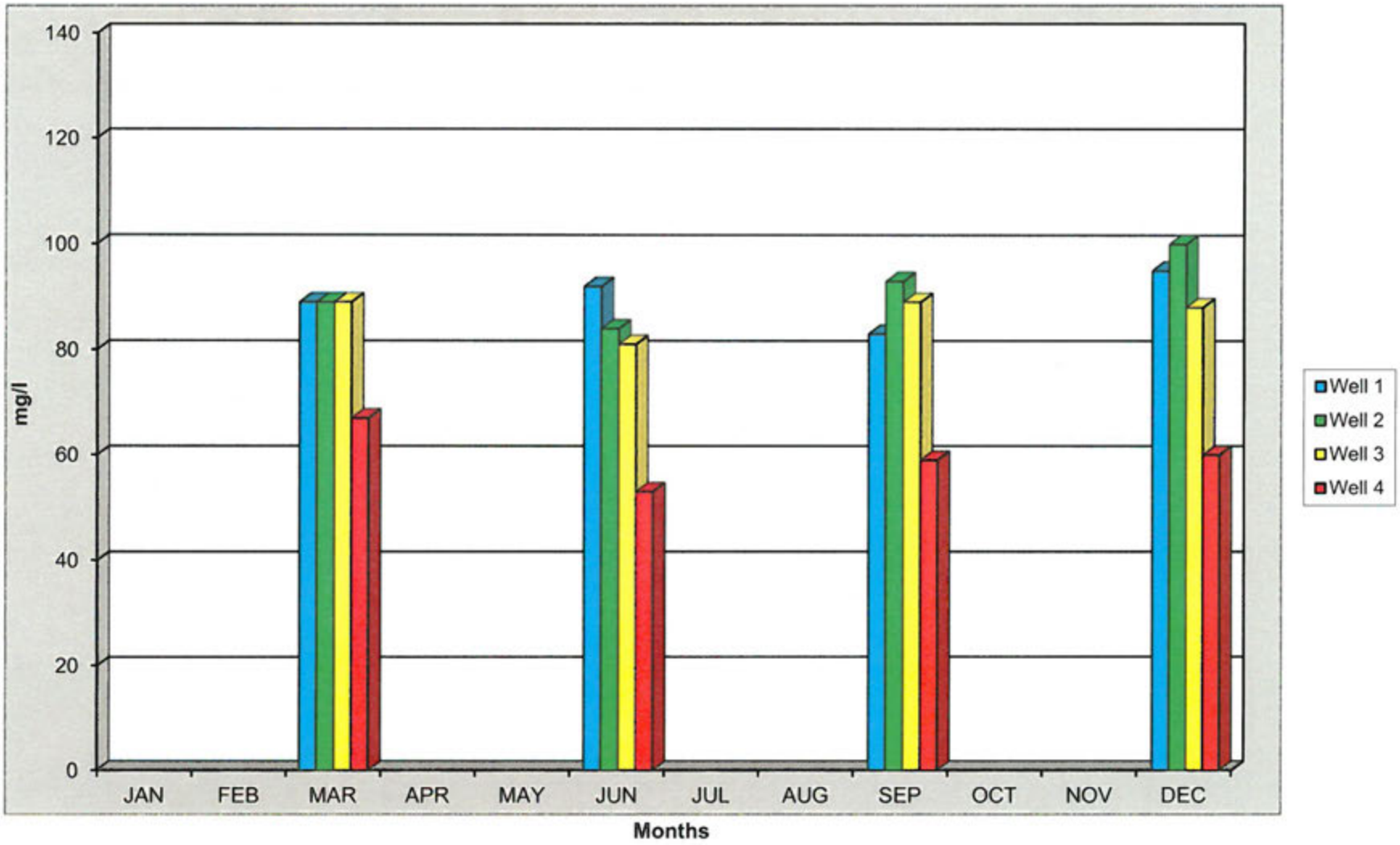
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - Sulfate - 2020



CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - Sodium - 2020

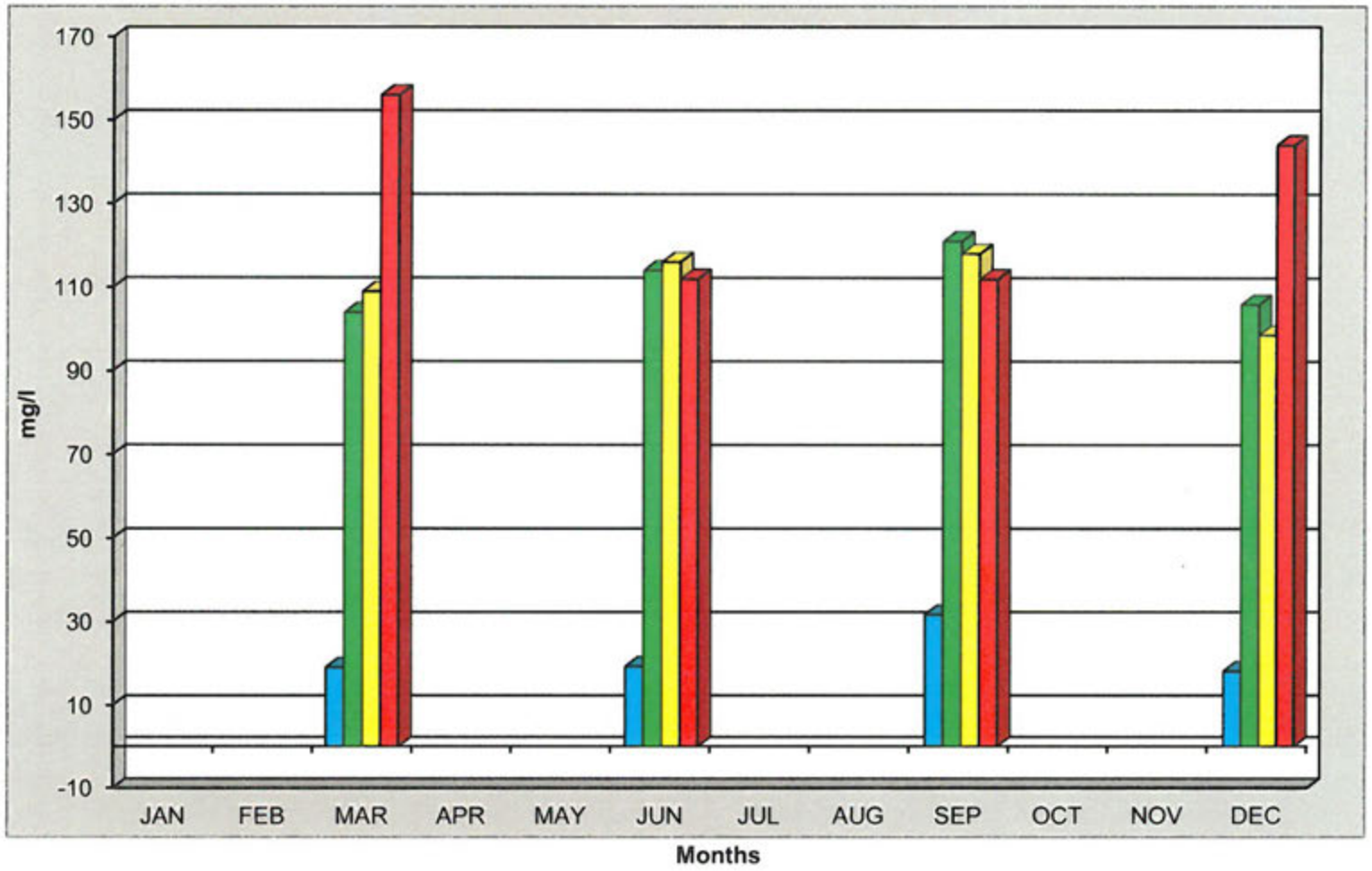


CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - MBAS - 2020

CRESTLINE SANITATION DISTRICT

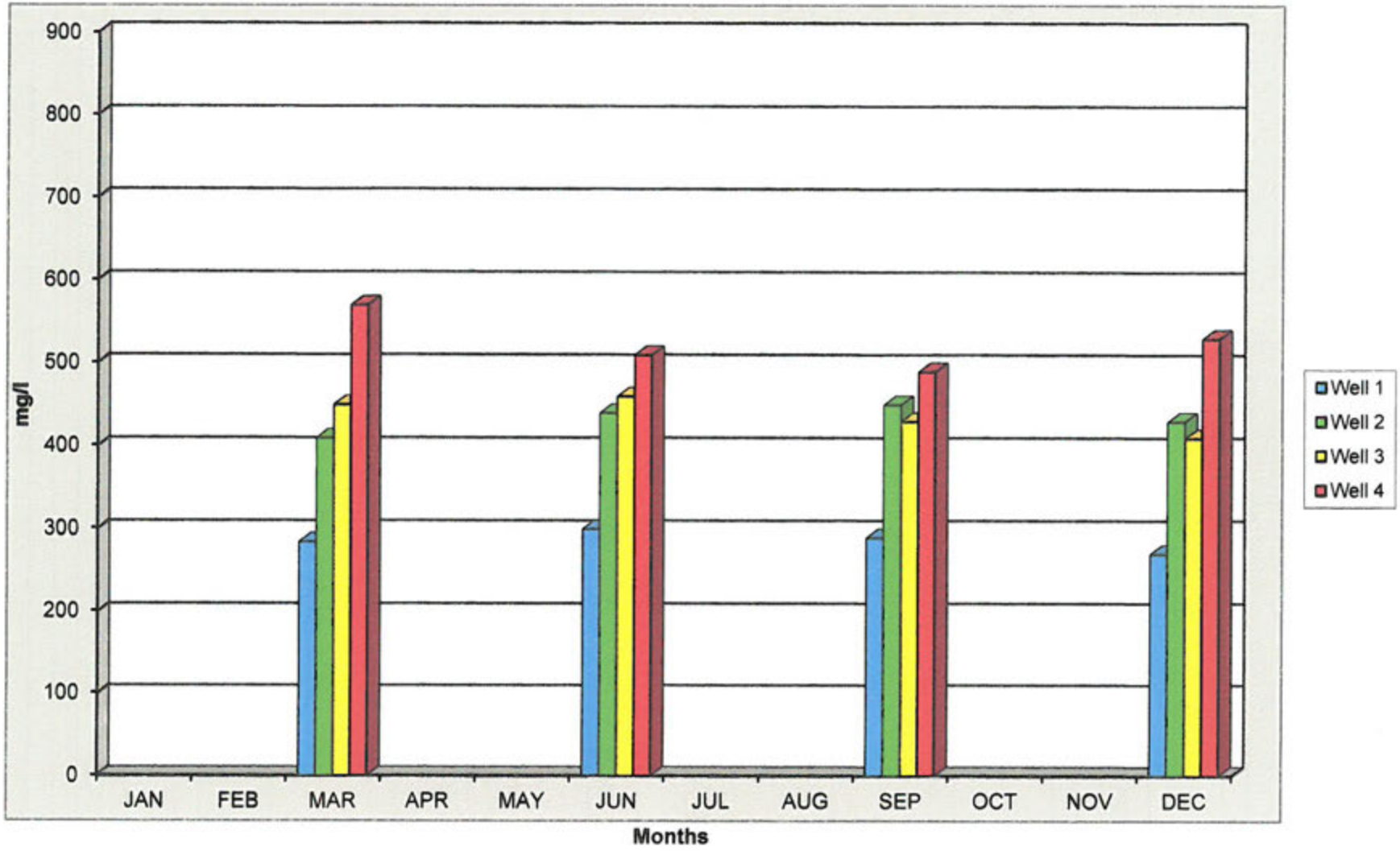
Pasture Monitoring Well Testing - Chloride - 2020



01/02 des

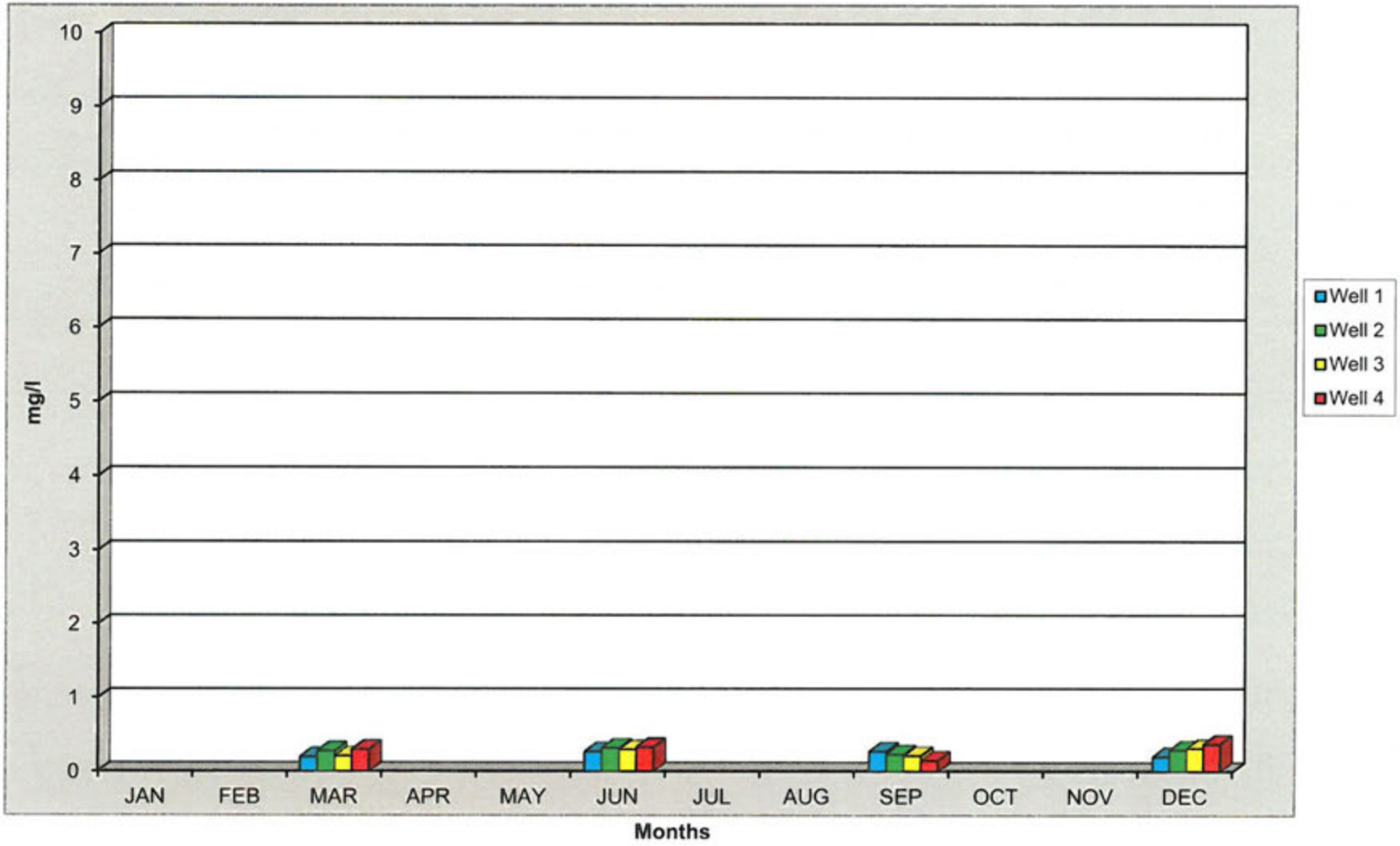
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - TDS - 2020



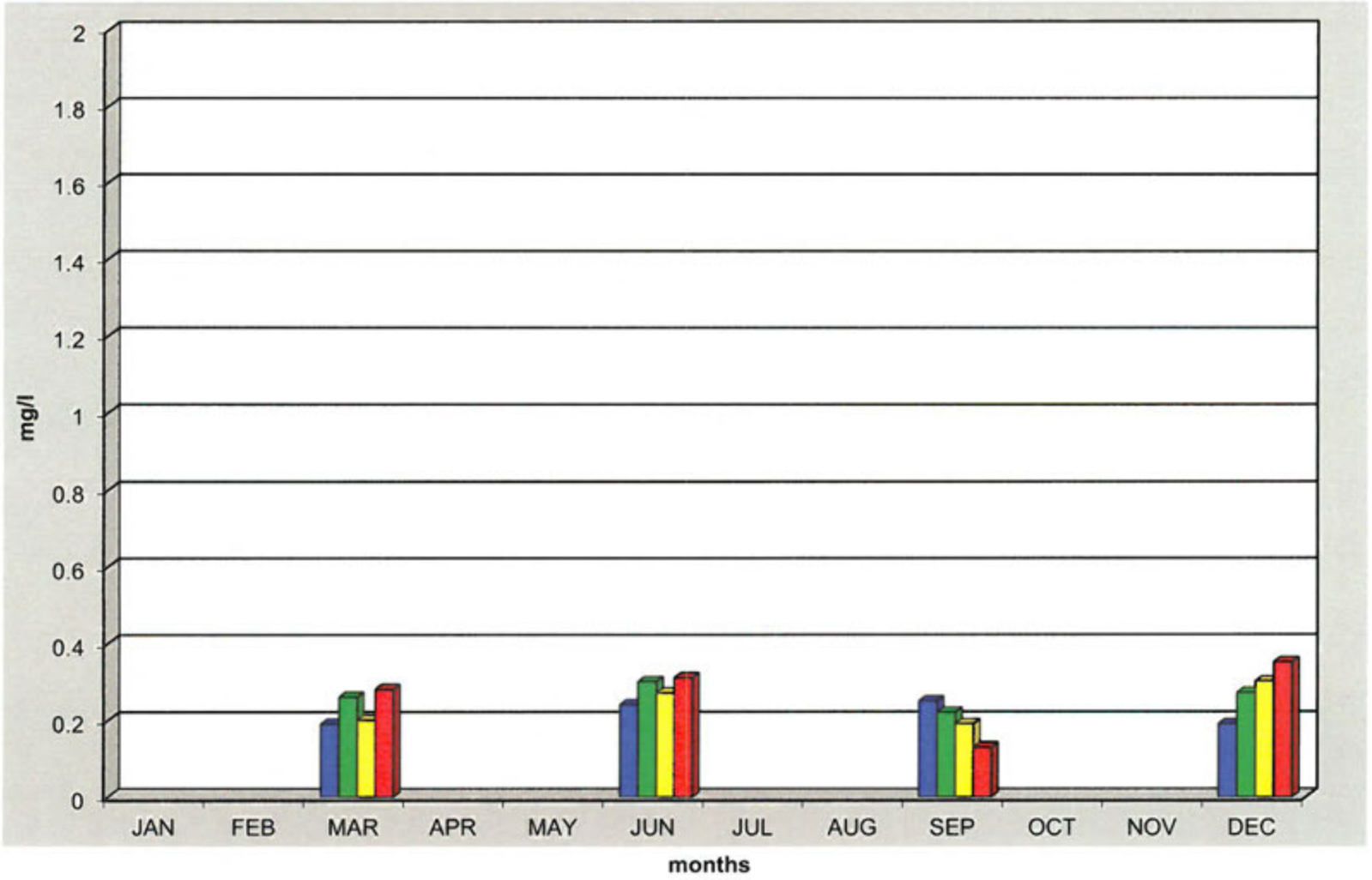
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - TKN - 2020



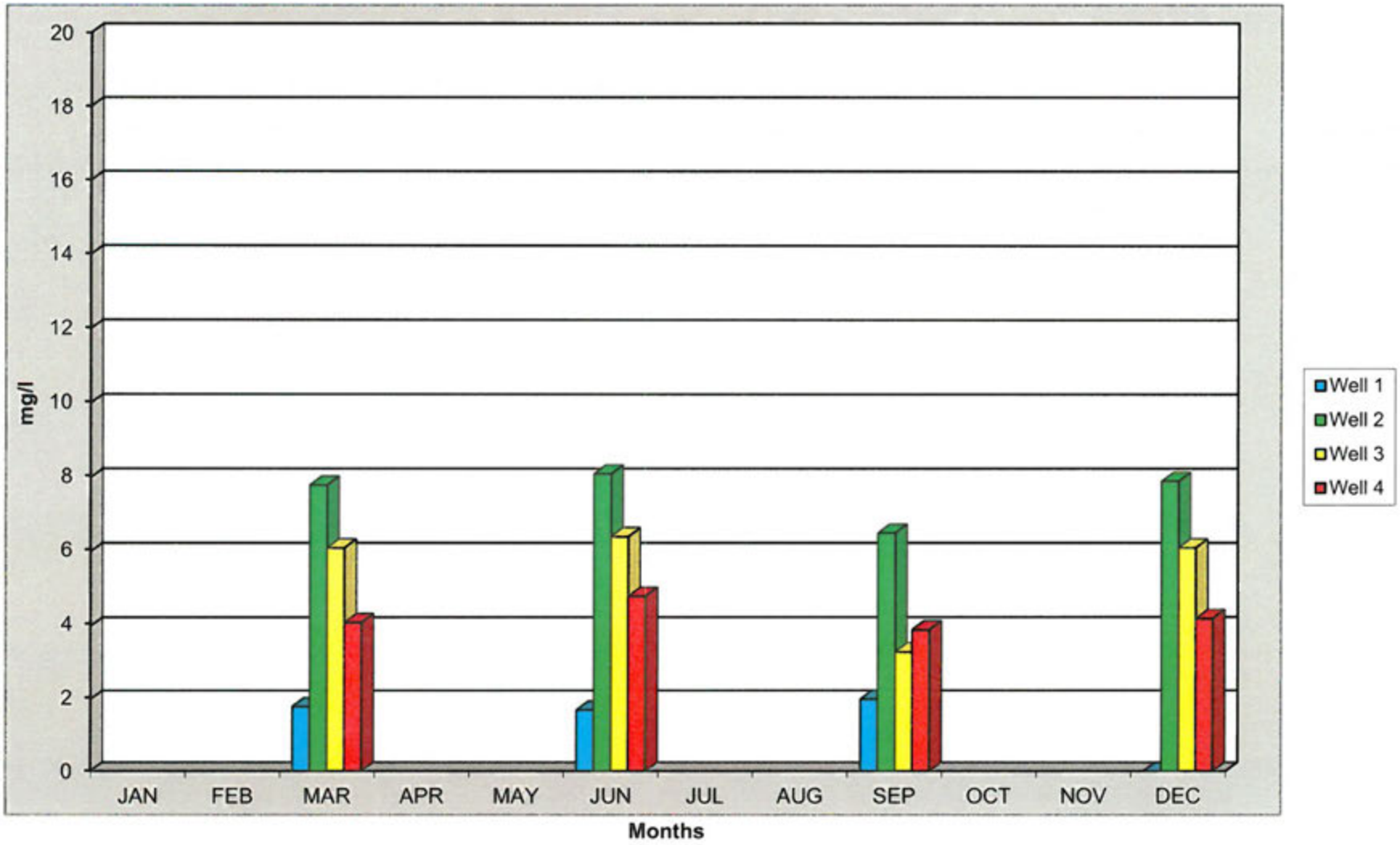
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - NH3-N - 2020



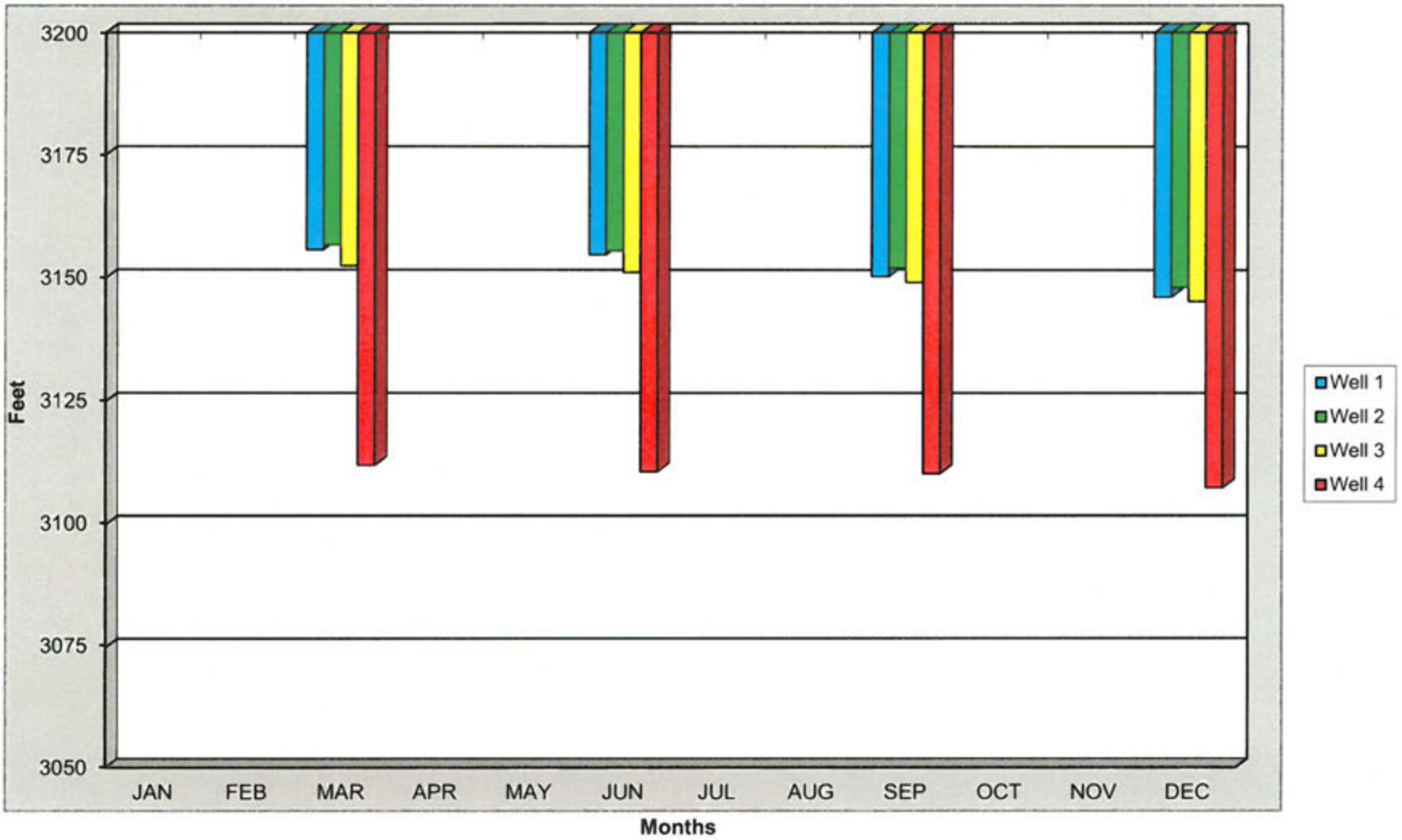
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - NO3-N - 2020



CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - Elevation of Water Depth - 2020



CRESTLINE SANITATION DISTRICT
Semi Annual Supply Water Monitoring Data

Year: **2020**

	Sample Dates	Frequency	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	**Total Flow in MG**	Local Water	Purchased Water
		Violations							
		Sample Type	Monitor	Monitor	Monitor	Monitor			
		Maximum							
		Mean/Minimum							
		Median							
			TDS	**Chloride**	**Sodium**	**Sulfate**			
Crestline Sanitation District (Final Effluent)	3/12/2020	MG/L	480.0	113.0	93.0	112.0	108.92		
		POUNDS	436,029	102,648	84,481	101,740			
Crestline Lake Arrowhead Water Agency (Silverwood)	3/10/2020	MG/L	320	76.8	57.0	70.0	9.67		
		POUNDS	25,807	6,194	4,597	5,645			
Crestline Village Water District	3/10/2020	MG/L	190	31.4	24.0	35.0	97.98	77.63	20.35
		POUNDS	155,259	25,659	19,612	28,600			
Valley of Enchantment Mutual Water Company	3/17/2020	MG/L	260	57.6	40.0	55.0	26.77	9.39	17.39
		POUNDS	58,048	12,860	8,930	12,279			
Calculated Constituent Concentrations		MG/L	213.3	39.9	29.6	41.5	134.4		
		POUNDS	239,114	44,712	33,139	46,525			

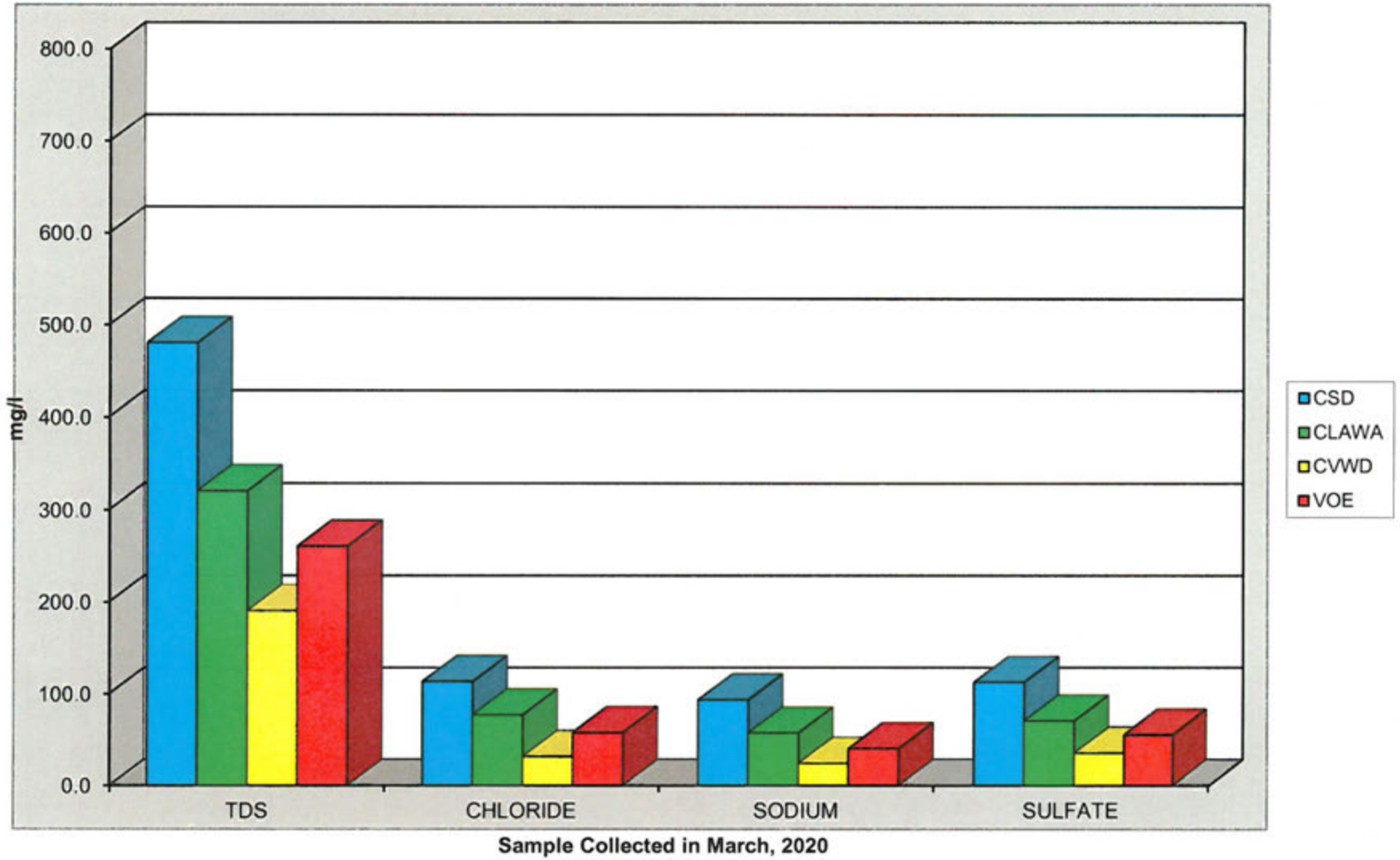
"CALCULATED CONSTITUENT CONCENTRATIONS" above, were mathematically calculated on samples collected from the three water purveyors contributing to the sewer system.

Samples collected in March

Flow Dates : October 1, 2019 thru March 31, 2020

CRESTLINE SANITATION DISTRICT

Supply Water Testing - March, 2020



Sample Collected in March, 2020

CRESTLINE SANITATION DISTRICT
Semi Annual Supply Water Monitoring Data

Year: **2020**

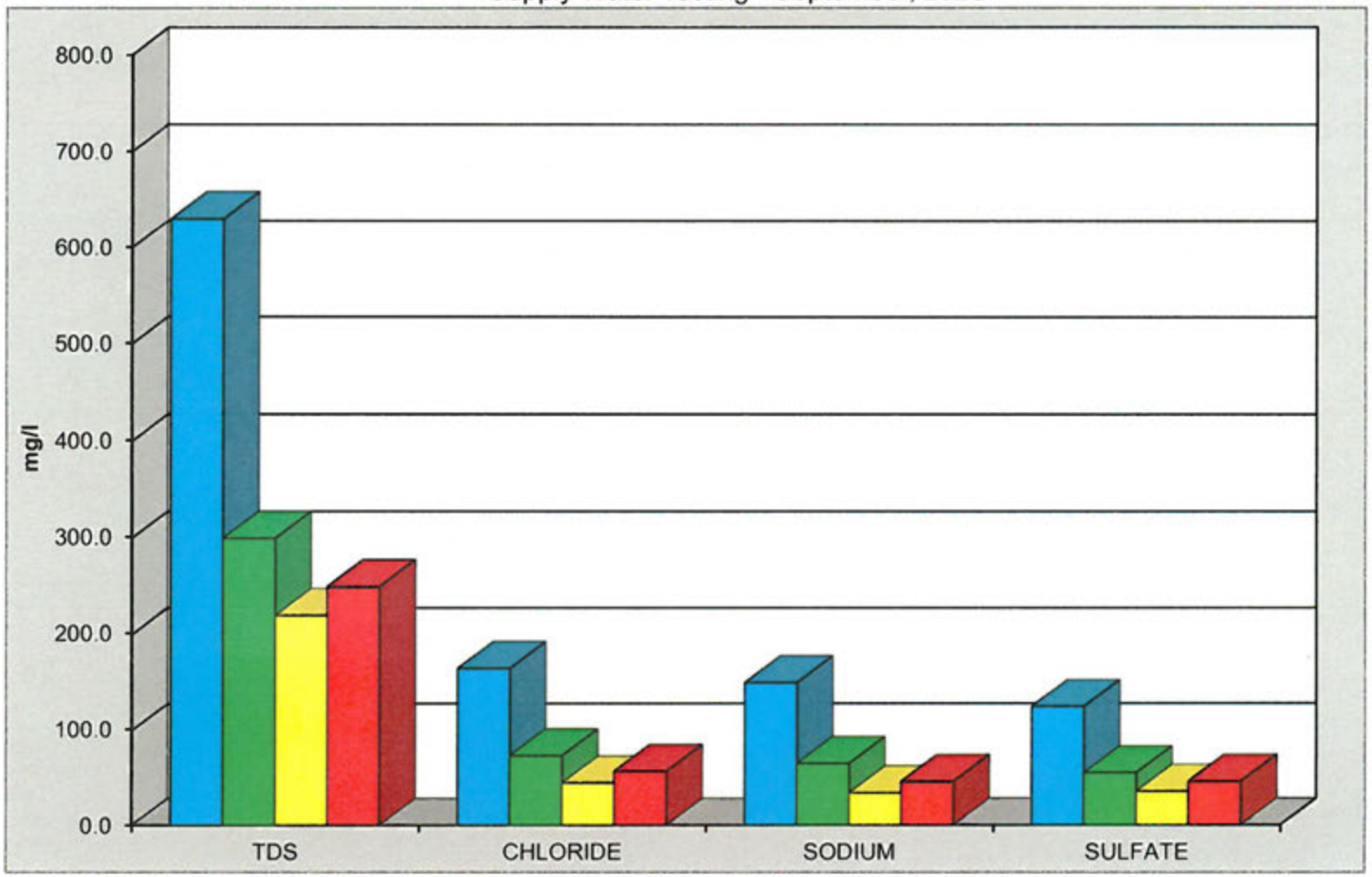
	Sample Dates	Frequency	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	**Total Flow in MG**	Local Water	Purchased Water
		Violations							
		Sample type	Monitor	Monitor	Monitor	Monitor			
		Maximum							
		Mean/Min.							
		Median							
			TDS	**Chloride**	**Sodium**	**Sulfate**			
Crestline Sanitation District	09/10/20	MG/L	630.0	165.0	150.0	125.0	117.85		
(Final Effluent)		POUNDS	619,202	162,172	147,429	122,858			
Crestline Lake Arrowhead	09/16/20	MG/L	300	73.4	65.0	55.0	9.67		
Water Agency (Silverwood)		POUNDS	24,182	5,916	5,239	4,433			
Crestline Village	09/16/20	MG/L	220	44.6	34.0	35.5	133.25	84.17	49.08
Water District		POUNDS	244,487	49,564	37,784	39,451			
Valley of Enchantment	09/03/20	MG/L	250	56.8	46.0	46.0	28.84	9.75	19.09
Mutual Water Company		POUNDS	60,131	13,662	11,064	11,064			
Calculated Constituent		MG/L	229.5	48.3	37.8	38.4	171.8		
Concentrations		POUNDS	328,800	69,143	54,088	54,949			

"CALCULATED CONSTITUENT CONCENTRATIONS" above, were mathematically calculated on samples collected from the three water purveyors contributing to the sewer system.

Samples collected in SEPTEMBER Flow Dates : April 1, 2020 thru September 30, 2020

CRESTLINE SANITATION DISTRICT

Supply Water Testing - September, 2020



Collected in September, 2020

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

Final Effluent Disposal Site (Las Flores) Constituent Violations

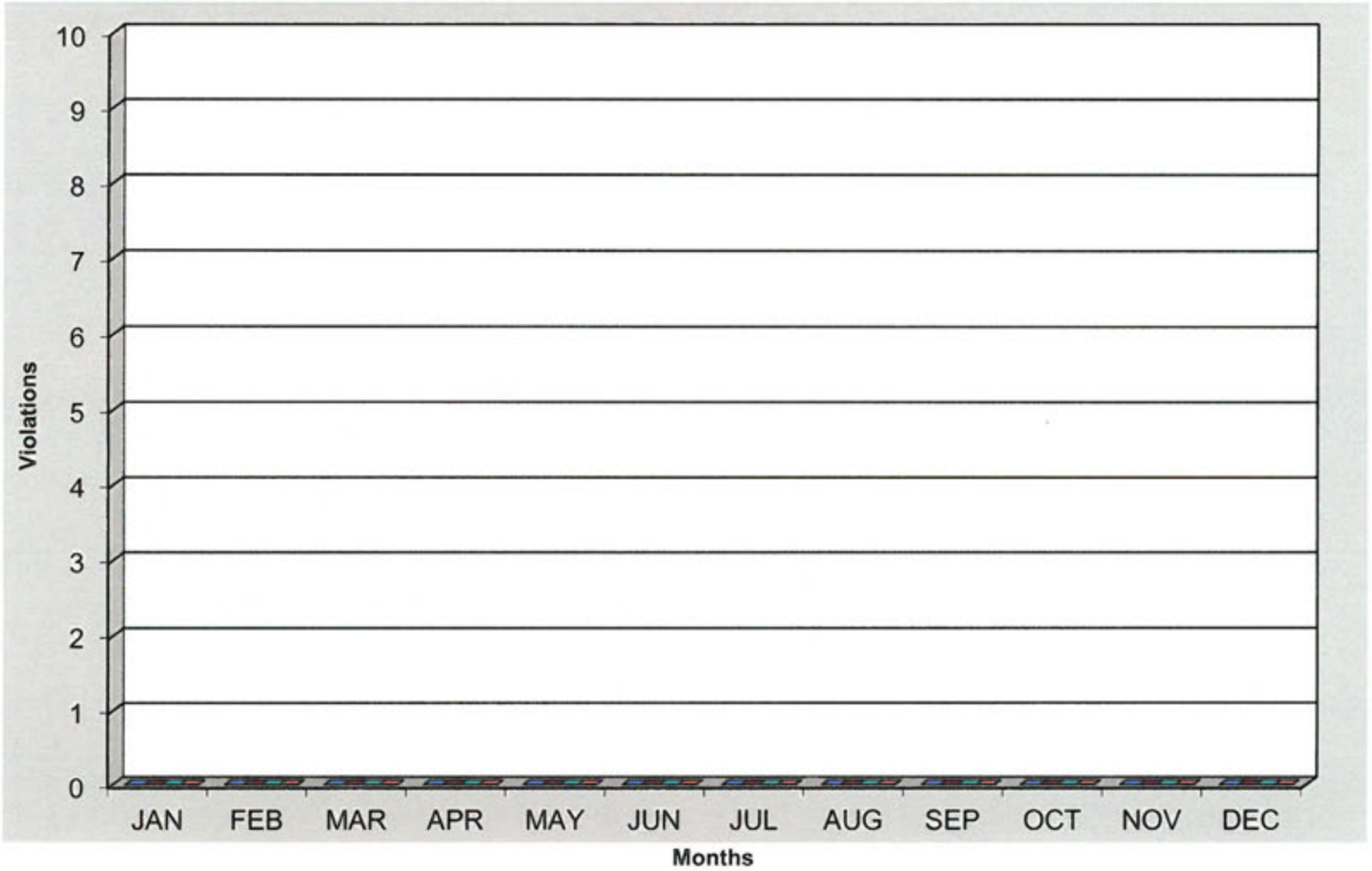
Year: **2020**

Frequency	2 week	weekly	weekly	weekly	2 month	2 month	2 month	2 month	monthly	monthly	monthly
Violations											
Sample Type	D/M	D/M	D/M	D/M	D/M	M	D/M	M	M	M	M
Maximum		0.5 ml/l		< 9	45.0		2.0				
Mean/Min.*	23.0 *		> 1	> 6	30.0		1.0				
	Total Coliform	Settleable Solids	D.O.	pH	BOD	COD	MBAS	Oil & Grease	TKN	NO3-N	NH3-N
	MPN	ml/l	mg/l	pH	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
January	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-
Year Total	0	0	0	0	0	0	0	0	0	0	0

D - Has Effluent / Discharge Limitations M - Has Effluent Monitoring Requirements

CRESTLINE SANITATION DISTRICT

Final Effluent Constituent Violations - 2020



CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

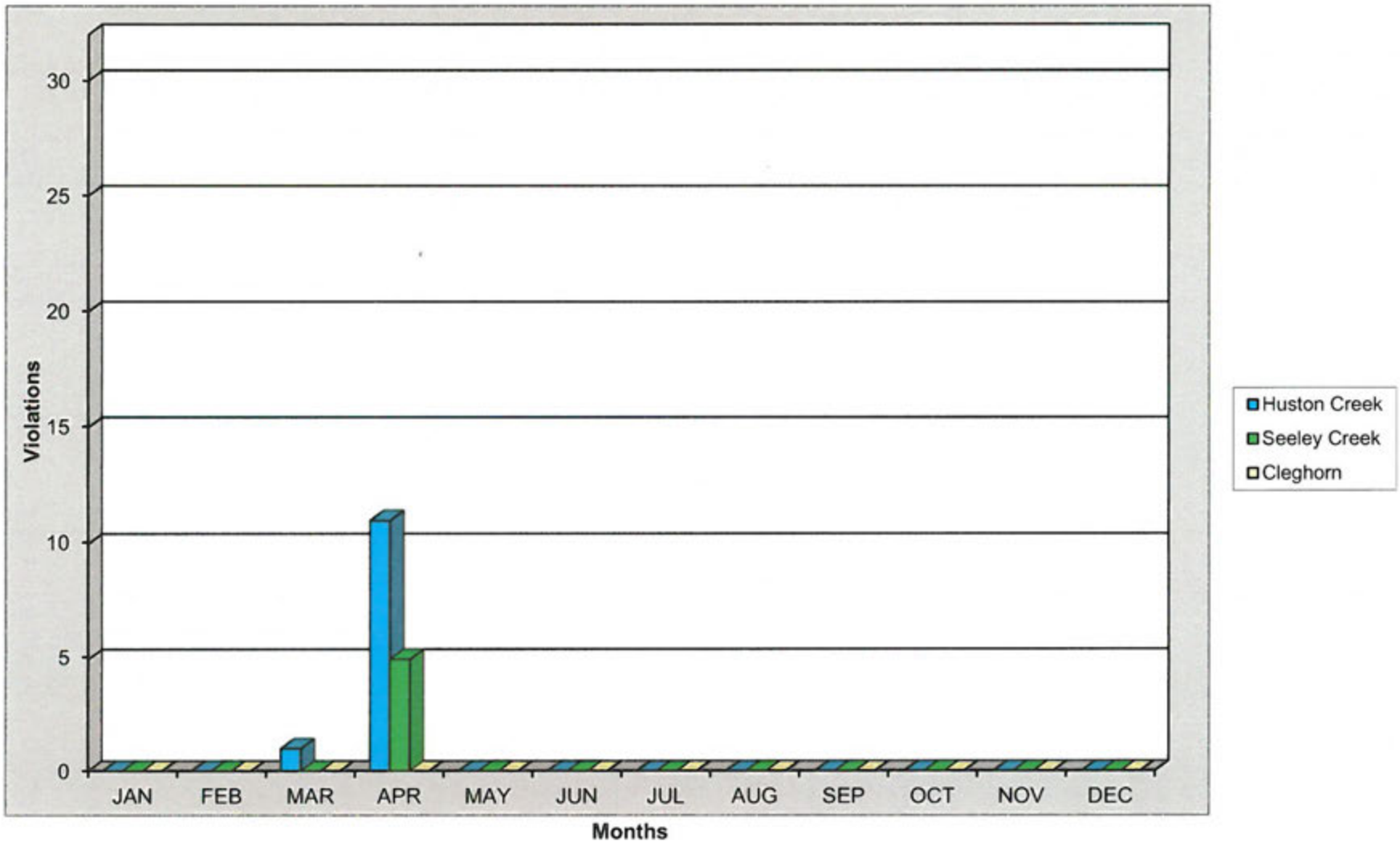
Treatment Facilities Flow Violations

Year: 2020

Facility name	**Huston Plant**		**Seeley Plant**		**Cleghorn Plant**	
Reading	daily	daily	daily	daily	daily	
Average	monthly		monthly		monthly	
Design limits	design 0.7 mg/d	maximum 2.50 mg	design 0.5 mg/d	maximum 1.00 mg	design 0.2 mg/d	maximum 0.4 mg
	design capacity	instantaneous peak	design capacity	instantaneous peak	design capacity	instantaneous peak
	Huston	**HC peak**	**Seeley**	**SC peak**	**Cleghorn**	**CH peak**
Months	violations	violations	violations	violations	violations	violations
January						
February						
March	1					
April	11		5			
May						
June						
July						
August						
September						
October						
November						
December						
Year Total	12	0	5	0	0	0

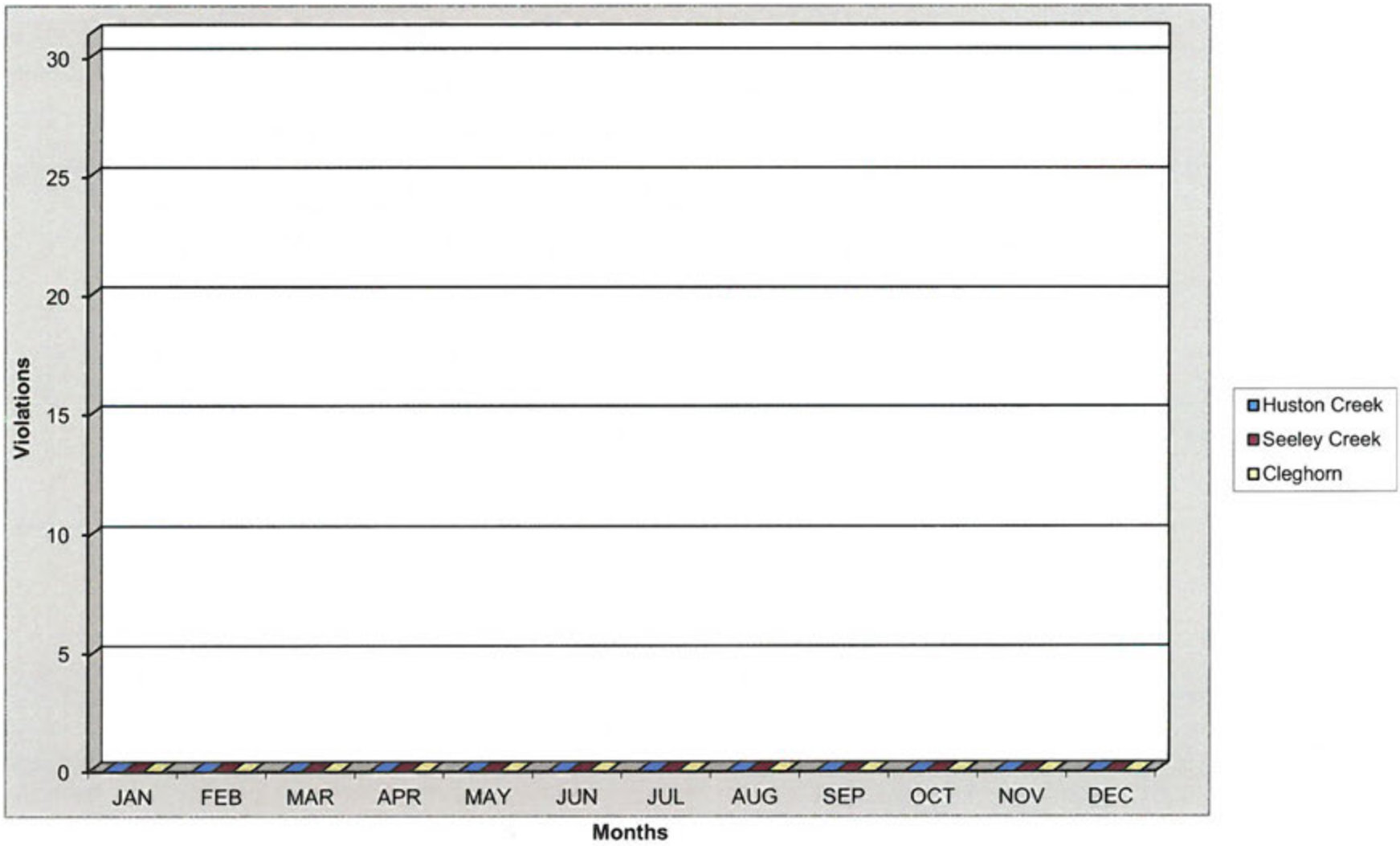
CRESTLINE SANITATION DISTRICT

Treatment Facility Design Capacity Flow Violations - 2020



CRESTLINE SANITATION DISTRICT

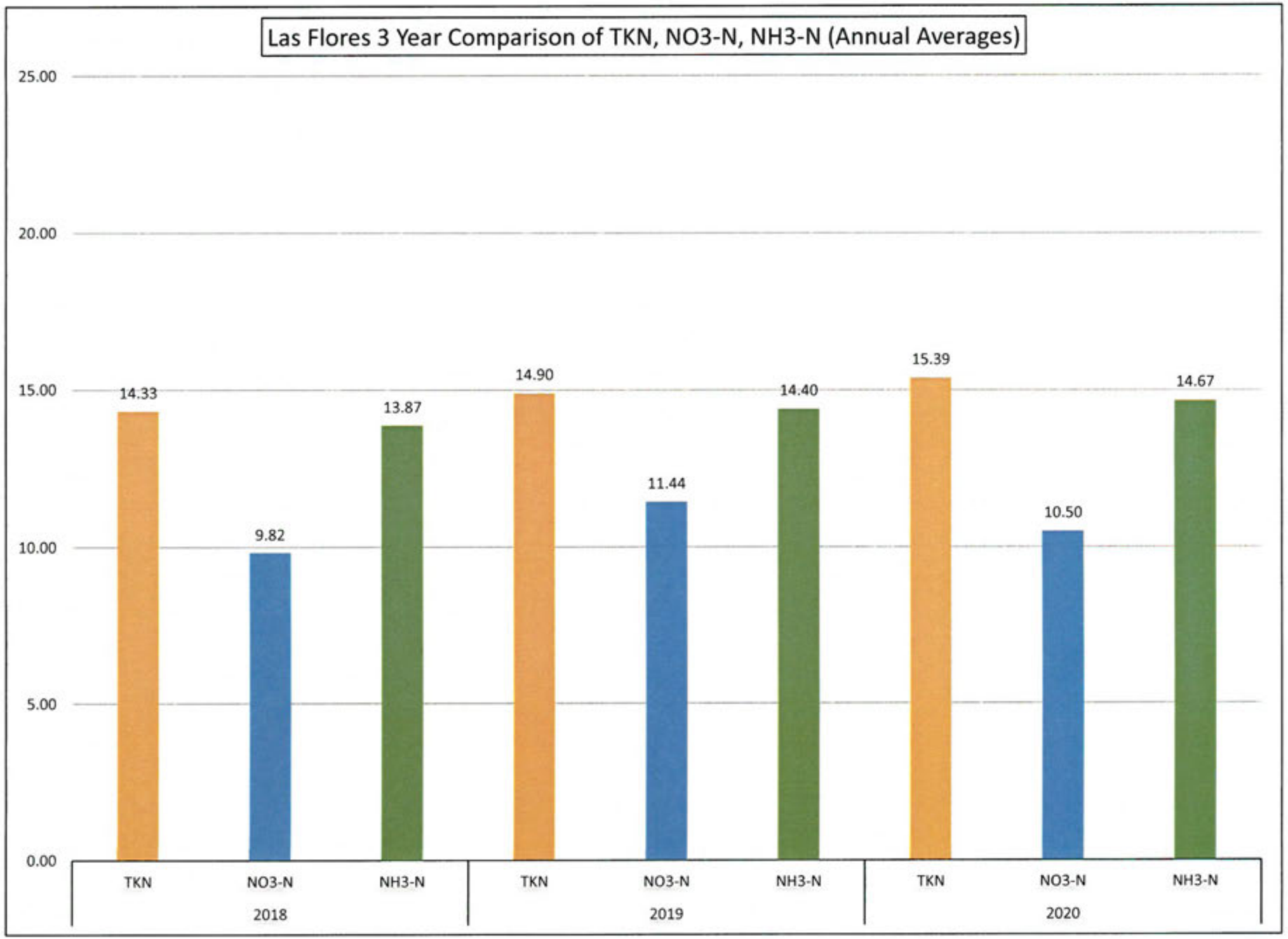
Treatment Facility Instantaneous Flow Violations - 2020



Crestline Sanitation District

3 Year TKN, NO3-N, NH3-N Comparison

Year		2018			2019			2020	
Test	TKN	NO3-N	NH3-N	TKN	NO3-N	NH3-N	TKN	NO3-N	NH3-N
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Month									
JANUARY	15.00	7.90	14.30	15.00	9.40	14.30	15.00	12.50	14.50
FEBRUARY	13.70	9.90	13.30	15.00	10.40	14.30	15.20	10.40	14.80
MARCH	14.60	12.40	14.30	14.80	10.40	14.20	17.00	11.80	16.40
APRIL	17.70	7.40	17.30	12.20	10.60	12.00	12.80	9.60	12.00
MAY	12.00	9.80	11.80	16.00	12.70	15.30	16.00	10.30	15.20
JUNE	13.80	10.40	13.00	14.80	11.80	14.60	16.80	10.40	16.00
JULY	14.60	10.40	14.30	14.50	12.50	14.00	14.80	10.60	14.20
AUGUST	12.50	8.90	12.00	15.00	10.80	14.50	16.30	11.80	15.20
SEPTEMBER	14.90	8.70	14.60	15.00	11.90	14.30	15.00	10.20	14.30
OCTOBER	15.80	10.40	15.50	15.00	12.50	14.50	15.00	11.40	14.20
NOVEMBER	12.30	9.80	11.30	16.00	11.90	15.60	16.30	6.80	15.00
DECEMBER	15.00	11.80	14.70	15.50	12.40	15.20	14.50	10.20	14.20
AVERAGES	14.33	9.82	13.87	14.90	11.44	14.40	15.39	10.50	14.67


Las Flores 3 Year Comparison of TKN, NO3-N, NH3-N (Annual Averages)
25.00
20.00
15.00
10.00
5.00
0.00
14.33
9.82
13.87
14.90
11.44
14.40
15.39
10.50
14.67
TKN
NO3-N
NH3-N
2018
TKN
NO3-N
NH3-N
2019
TKN
NO3-N
NH3-N
2020

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

APPENDIX "A"

Sample Results
Las Flores Stand Pipe
District Final Effluent

Annual Testing

Tests Results for:
Purgable Organics
Base / Neutral / Acid Extractable Organics
Heavy Metals

Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Las Flores Outfall Annual	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/14/20 12:36

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.-9-3 (2009061-01) Liquid	**Sampled: 09/03/20 09:30**	**Received: 09/03/20 12:30**							
Phenolics	ND	0.0500	mg/L	1	B0I0819	09/03/20	09/03/20 14:45	EPA 420.1	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

26052 Merit Circle Suite 105, Laguna Hills, California 92653
Telephone: (949) 348-9389 Fax: (949) 348-9115
E-Mail: sierralabs @ sierralabs.net

Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Las Flores Outfall Annual	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/14/20 12:36

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.-9-3 (2009061-01) Liquid Sampled: 09/03/20 09:30 Received: 09/03/20 12:30									
Silver	ND	0.44	mg/L	1	B0I0312	09/03/20	09/03/20 19:20	EPA 200.7	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	ND	0.0070	"	"	"	"	"	"	
Copper	ND	0.050	"	"	"	"	"	"	
Nickel	ND	0.0050	"	"	"	"	"	"	
Lead	ND	0.010	"	"	"	"	"	"	
Zinc	**0.10**	0.010	"	"	"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Las Flores Outfall Annual	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/14/20 12:36

Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.-9-3 (2009061-01) Liquid Sampled: 09/03/20 09:30 Received: 09/03/20 12:30									
Acrolein	ND	5.0	µg/L	1	B0I0401	09/03/20	09/04/20 07:41	EPA 624	
Acrylonitrile	ND	2.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	**6.1**	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	1.0	"	"	"	"	"	"	
Chloroform	**20**	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	**3.7**	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*88-110*		"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Las Flores Outfall Annual	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/14/20 12:36

Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.-9-3 (2009061-01) Liquid Sampled: 09/03/20 09:30 Received: 09/03/20 12:30									
Surrogate: 4-Bromofluorobenzene		*94.8 %*	*86-115*		*B010401*	*09/03/20*	*09/04/20 07:41*	*EPA 624*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Las Flores Outfall Annual	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/14/20 12:36

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.-9-3 (2009061-01) Liquid Sampled: 09/03/20 09:30 Received: 09/03/20 12:30									
Acenaphthene	ND	5.0	µg/L	1	B0I1002	09/10/20	09/10/20 08:14	EPA 625	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzidine	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	1.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
3,3´-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.0	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Las Flores Outfall Annual	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/14/20 12:36

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.-9-3 (2009061-01) Liquid	**Sampled: 09/03/20 09:30**	**Received: 09/03/20 12:30**							
Indeno (1,2,3-cd) pyrene	ND	5.0	µg/L	1	B0I1002	09/10/20	09/10/20 08:14	EPA 625	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Methyl-4,6-dinitrophenol	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	1.0	"	"	"	"	"	"	
4-Nitrophenol	ND	1.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	5.0	"	"	"	"	"	"	
Diphenylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	1.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*81.3 %*	*25-121*		"	"	"	"	
Surrogate: Phenol-d6		*80.0 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*77.5 %*	*23-120*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*79.0 %*	*30-115*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*65.2 %*	*19-122*		"	"	"	"	
Surrogate: Terphenyl-d14		*87.7 %*	*18-137*		"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Las Flores Outfall Annual	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/14/20 12:36

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.-9-3 (2009061-01) Liquid Sampled: 09/03/20 09:30 Received: 09/03/20 12:30									
HC < C8	ND	0.010	mg/L	1	B0I1408	09/09/20	09/14/20 10:02	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
C12 <= HC < C14	ND	0.010	"	"	"	"	"	"	
C14 <= HC < C16	ND	0.010	"	"	"	"	"	"	
C16 <= HC < C18	ND	0.010	"	"	"	"	"	"	
C18 <= HC < C20	ND	0.010	"	"	"	"	"	"	
C20 <= HC < C24	ND	0.010	"	"	"	"	"	"	
C24 <= HC < C28	ND	0.010	"	"	"	"	"	"	
C28 <= HC < C32	ND	0.010	"	"	"	"	"	"	
HC >= C32	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*64.8 %*	*60-175*		"	"	"	"	

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CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

APPENDIX "B"

Sample Results
Ground Water Monitoring Wells
Final Effluent Disposal Site

Annual Testing

Tests Results for:
Purgable Halocarbons and Aromatics
Base / Neutral / Acid Extractable Organics

Special Quarterly Testing

Disinfection Bi-products
Trihalomethanes (EPA Method 524.2)
Haloacetic Acids (EPA Method 552.2)

Crestline Sanitation District	Project:	NA	
P.O. Box 3395	Project Number:	Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager:	Rick Dever	09/18/20 09:08

Trihalomethanes by EPA Method 524.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-10 (2009160-01) Liquid Sampled: 09/10/20 09:40 Received: 09/10/20 13:55									
Bromodichloromethane	ND	0.500	µg/L	1	B0I1103	09/11/20	09/14/20 08:39	EPA 524.2	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*88.6 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*86-115*		"	"	"	"	
MW2-9-10 (2009160-02) Liquid Sampled: 09/10/20 10:00 Received: 09/10/20 13:55									
Bromodichloromethane	ND	0.500	µg/L	1	B0I1103	09/11/20	09/14/20 08:39	EPA 524.2	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*96.2 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*86-115*		"	"	"	"	
MW3-9-10 (2009160-03) Liquid Sampled: 09/10/20 10:15 Received: 09/10/20 13:55									
Bromodichloromethane	ND	0.500	µg/L	1	B0I1103	09/11/20	09/14/20 08:39	EPA 524.2	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*86-115*		"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Trihalomethanes by EPA Method 524.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-10 (2009160-04) Liquid Sampled: 09/10/20 10:30 Received: 09/10/20 13:55									
Bromodichloromethane	ND	0.500	µg/L	1	B011103	09/11/20	09/14/20 08:39	EPA 524.2	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*86-115*		"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Haloacetic Acids (GC/ECD) by EPA Method 552.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-10 (2009160-01) Liquid Sampled: 09/10/20 09:40 Received: 09/10/20 13:55									
Monochloroacetic Acid	ND	2.00	µg/L	1	B0I1501	09/15/20	09/17/20 07:47	EPA 552.2	
Dichloroacetic Acid	ND	1.00	"	"	"	"	"	"	
Trichloroacetic Acid	ND	1.00	"	"	"	"	"	"	
Monobromoacetic Acid	ND	1.00	"	"	"	"	"	"	
Dibromoacetic Acid	ND	1.00	"	"	"	"	"	"	
Total Haloacetic Acids	ND	1.00	"	"	"	"	"	"	
Surrogate: 2,3-Dibromopropionic Acid		*96.8 %*	*60-150*		"	"	"	"	
MW2-9-10 (2009160-02) Liquid Sampled: 09/10/20 10:00 Received: 09/10/20 13:55									
Monochloroacetic Acid	ND	2.00	µg/L	1	B0I1501	09/15/20	09/17/20 07:47	EPA 552.2	
Dichloroacetic Acid	ND	1.00	"	"	"	"	"	"	
Trichloroacetic Acid	ND	1.00	"	"	"	"	"	"	
Monobromoacetic Acid	ND	1.00	"	"	"	"	"	"	
Dibromoacetic Acid	ND	1.00	"	"	"	"	"	"	
Total Haloacetic Acids	ND	1.00	"	"	"	"	"	"	
Surrogate: 2,3-Dibromopropionic Acid		*83.0 %*	*60-150*		"	"	"	"	
MW3-9-10 (2009160-03) Liquid Sampled: 09/10/20 10:15 Received: 09/10/20 13:55									
Monochloroacetic Acid	ND	2.00	µg/L	1	B0I1501	09/15/20	09/17/20 07:47	EPA 552.2	
Dichloroacetic Acid	ND	1.00	"	"	"	"	"	"	
Trichloroacetic Acid	ND	1.00	"	"	"	"	"	"	
Monobromoacetic Acid	ND	1.00	"	"	"	"	"	"	
Dibromoacetic Acid	ND	1.00	"	"	"	"	"	"	
Total Haloacetic Acids	ND	1.00	"	"	"	"	"	"	
Surrogate: 2,3-Dibromopropionic Acid		*147 %*	*60-150*		"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Haloacetic Acids (GC/ECD) by EPA Method 552.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-10 (2009160-04) Liquid Sampled: 09/10/20 10:30 Received: 09/10/20 13:55									
Monochloroacetic Acid	ND	2.00	µg/L	1	B0I1501	09/15/20	09/17/20 07:47	EPA 552.2	
Dichloroacetic Acid	ND	1.00	"	"	"	"	"	"	
Trichloroacetic Acid	ND	1.00	"	"	"	"	"	"	
Monobromoacetic Acid	ND	1.00	"	"	"	"	"	"	
Dibromoacetic Acid	ND	1.00	"	"	"	"	"	"	
Total Haloacetic Acids	ND	1.00	"	"	"	"	"	"	
Surrogate: 2,3-Dibromopropionic Acid		*143 %*	*60-150*		"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-10 (2009160-01) Liquid Sampled: 09/10/20 09:40 Received: 09/10/20 13:55									
Acrolein	ND	5.0	µg/L	1	B0I1406	09/14/20	09/15/20 08:55	EPA 624	
Acrylonitrile	ND	2.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.6 %*		*86-118*	"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*		*88-110*	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-10 (2009160-01) Liquid	**Sampled: 09/10/20 09:40**		**Received: 09/10/20 13:55**						
Surrogate: 4-Bromofluorobenzene		*104 %*	*86-115*		*B0I1406*	*09/14/20*	*09/15/20 08:55*	*EPA 624*	
MW2-9-10 (2009160-02) Liquid	**Sampled: 09/10/20 10:00**		**Received: 09/10/20 13:55**						
Acrolein	ND	5.0	µg/L	1	B0I1406	09/14/20	09/15/20 08:55	EPA 624	
Acrylonitrile	ND	2.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2-9-10 (2009160-02) Liquid	**Sampled: 09/10/20 10:00**	**Received: 09/10/20 13:55**							
Methyl tert-butyl ether	ND	1.0	µg/L	1	B011406	09/14/20	09/15/20 08:55	EPA 624	
Surrogate: Dibromofluoromethane		*91.6 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.0 %*	*86-115*		"	"	"	"	
MW3-9-10 (2009160-03) Liquid	**Sampled: 09/10/20 10:15**	**Received: 09/10/20 13:55**							
Acrolein	ND	5.0	µg/L	1	B011406	09/14/20	09/15/20 08:55	EPA 624	
Acrylonitrile	ND	2.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3-9-10 (2009160-03) Liquid Sampled: 09/10/20 10:15 Received: 09/10/20 13:55									
Vinyl chloride	ND	1.0	µg/L	1	B0I1406	09/14/20	09/15/20 08:55	EPA 624	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93.6 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*86-115*		"	"	"	"	
MW4-9-10 (2009160-04) Liquid Sampled: 09/10/20 10:30 Received: 09/10/20 13:55									
Acrolein	ND	5.0	µg/L	1	B0I1406	09/14/20	09/15/20 08:55	EPA 624	
Acrylonitrile	ND	2.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	

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Crestline Sanitation District	Project:	NA	
P.O. Box 3395	Project Number:	Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager:	Rick Dever	09/18/20 09:08

Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-10 (2009160-04) Liquid	**Sampled: 09/10/20 10:30**	**Received: 09/10/20 13:55**							
1,1,2-Trichloroethane	ND	1.0	µg/L	1	B0I1406	09/14/20	09/15/20 08:55	EPA 624	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.0 %*		*86-118*	"	"	"	"	
Surrogate: Toluene-d8		*89.2 %*		*88-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*86-115*	"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-10 (2009160-01) Liquid Sampled: 09/10/20 09:40 Received: 09/10/20 13:55									
Acenaphthene	ND	5.0	µg/L	1	B0I1405	09/14/20	09/15/20 09:15	EPA 625	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzidine	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	1.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.0	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-10 (2009160-01) Liquid	**Sampled: 09/10/20 09:40**	**Received: 09/10/20 13:55**							
Indeno (1,2,3-cd) pyrene	ND	5.0	µg/L	1	B0I1405	09/14/20	09/15/20 09:15	EPA 625	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Methyl-4,6-dinitrophenol	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	1.0	"	"	"	"	"	"	
4-Nitrophenol	ND	1.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	5.0	"	"	"	"	"	"	
Diphenylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	1.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*55.9 %*	*25-121*		"	"	"	"	
Surrogate: Phenol-d6		*56.1 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*51.8 %*	*23-120*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*84.4 %*	*30-115*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*41.3 %*	*19-122*		"	"	"	"	
Surrogate: Terphenyl-d14		*44.6 %*	*18-137*		"	"	"	"	
MW2-9-10 (2009160-02) Liquid	**Sampled: 09/10/20 10:00**	**Received: 09/10/20 13:55**							
Acenaphthene	ND	5.0	µg/L	1	B0I1405	09/14/20	09/15/20 09:15	EPA 625	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzidine	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	1.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Crestline Sanitation District	Project:	NA	
P.O. Box 3395	Project Number:	Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager:	Rick Dever	09/18/20 09:08

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2-9-10 (2009160-02) Liquid	**Sampled: 09/10/20 10:00**	**Received: 09/10/20 13:55**							
2-Chloronaphthalene	ND	5.0	µg/L	1	B0I1405	09/14/20	09/15/20 09:15	EPA 625	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
3,3´-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.0	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Methyl-4,6-dinitrophenol	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	1.0	"	"	"	"	"	"	
4-Nitrophenol	ND	1.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	5.0	"	"	"	"	"	"	
Diphenylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	1.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*84.0 %*		*25-121*		"	"	"	

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Crestline Sanitation District	Project:	NA	
P.O. Box 3395	Project Number:	Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager:	Rick Dever	09/18/20 09:08

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2-9-10 (2009160-02) Liquid	**Sampled: 09/10/20 10:00**	**Received: 09/10/20 13:55**							
Surrogate: Phenol-d6		*85.3 %*		*24-113*	*B0I1405*	*09/14/20*	*09/15/20 09:15*	*EPA 625*	
Surrogate: Nitrobenzene-d5		*77.8 %*		*23-120*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*79.7 %*		*30-115*	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*61.6 %*		*19-122*	"	"	"	"	
Surrogate: Terphenyl-d14		*86.8 %*		*18-137*	"	"	"	"	
MW3-9-10 (2009160-03) Liquid	**Sampled: 09/10/20 10:15**	**Received: 09/10/20 13:55**							
Acenaphthene	ND	5.0	µg/L	1	B0I1405	09/14/20	09/15/20 09:15	EPA 625	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzidine	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	1.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.0	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	

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Crestline Sanitation District	Project:	NA	
P.O. Box 3395	Project Number:	Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager:	Rick Dever	09/18/20 09:08

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3-9-10 (2009160-03) Liquid	**Sampled: 09/10/20 10:15**	**Received: 09/10/20 13:55**							
1,2-Diphenylhydrazine	ND	5.0	µg/L	1	B011405	09/14/20	09/15/20 09:15	EPA 625	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Methyl-4,6-dinitrophenol	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	1.0	"	"	"	"	"	"	
4-Nitrophenol	ND	1.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	5.0	"	"	"	"	"	"	
Diphenylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	1.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*63.0 %*		*25-121*	"	"	"	"	
Surrogate: Phenol-d6		*59.9 %*		*24-113*	"	"	"	"	
Surrogate: Nitrobenzene-d5		*58.7 %*		*23-120*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*100 %*		*30-115*	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*41.9 %*		*19-122*	"	"	"	"	
Surrogate: Terphenyl-d14		*64.9 %*		*18-137*	"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-10 (2009160-04) Liquid Sampled: 09/10/20 10:30 Received: 09/10/20 13:55									
Acenaphthene	ND	5.0	µg/L	1	B011405	09/14/20	09/15/20 09:15	EPA 625	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzidine	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	1.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.0	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	

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Crestline Sanitation District	Project: NA	
P.O. Box 3395	Project Number: Monitoring Wells Annual Samples	**Reported:**
Crestline CA, 92325-3395	Project Manager: Rick Dever	09/18/20 09:08

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-10 (2009160-04) Liquid Sampled: 09/10/20 10:30 Received: 09/10/20 13:55									
Indeno (1,2,3-cd) pyrene	ND	5.0	µg/L	1	B0I1405	09/14/20	09/15/20 09:15	EPA 625	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Methyl-4,6-dinitrophenol	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	1.0	"	"	"	"	"	"	
4-Nitrophenol	ND	1.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	5.0	"	"	"	"	"	"	
Diphenylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	1.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*76.7 %*		*25-121*	"	"	"	"	
Surrogate: Phenol-d6		*76.0 %*		*24-113*	"	"	"	"	
Surrogate: Nitrobenzene-d5		*71.9 %*		*23-120*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*71.0 %*		*30-115*	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*54.4 %*		*19-122*	"	"	"	"	
Surrogate: Terphenyl-d14		*81.3 %*		*18-137*	"	"	"	"	

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