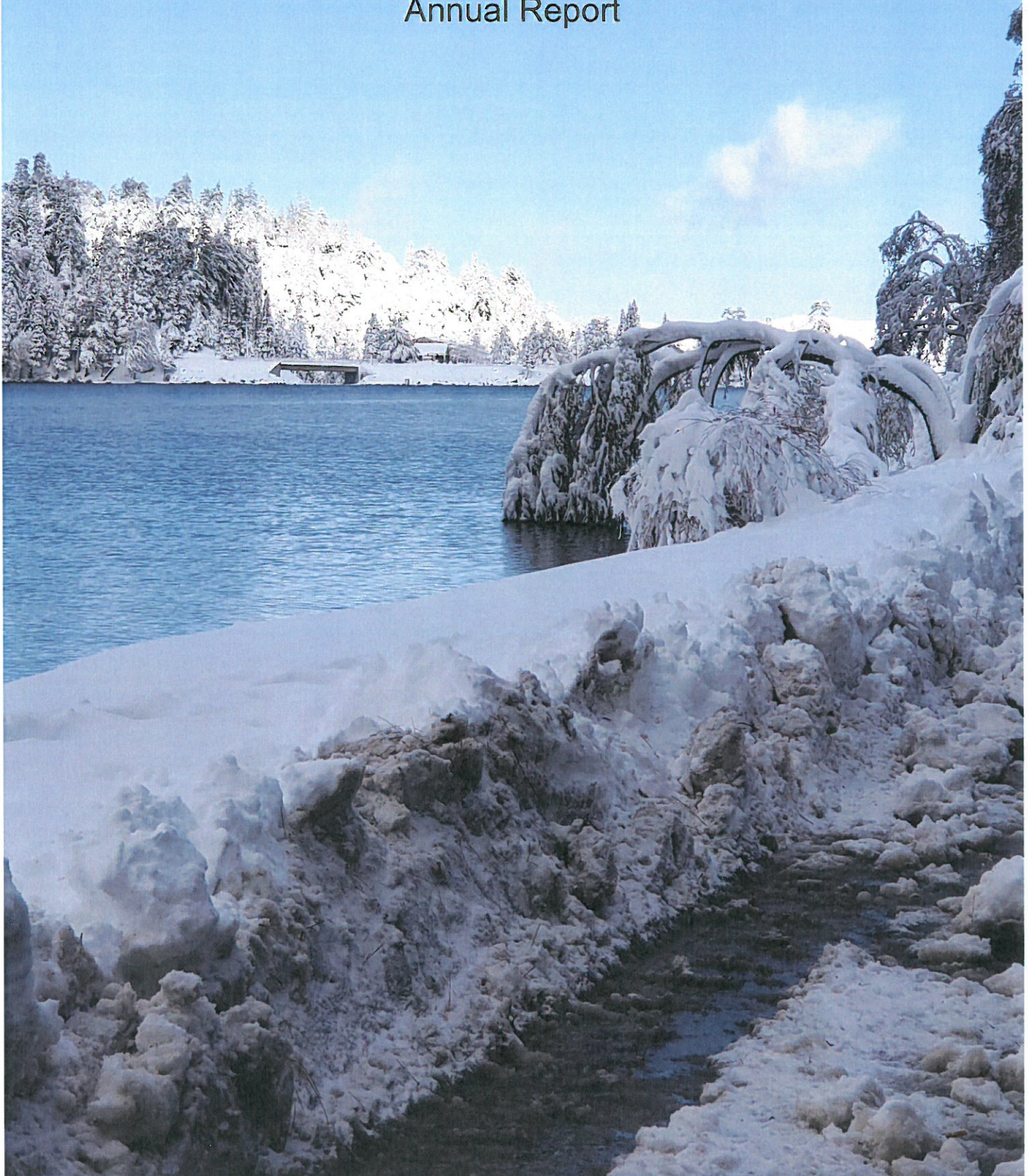


Crestline Sanitation District
2019
Annual Report



CRESTLINE SANITATION DISTRICT ANNUAL REPORT

Monitoring and Reporting Program: 6-94-57


WDID Number: 6B360106001

ANNUAL REPORT

Year: 2019

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

Report Prepared by:


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CRESTLINE SANITATION DISTRICT

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CRESTLINE SANITATION DISTRICT ANNUAL REPORT

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**Crestline Sanitation District
Annual Report
Summation
2019**

Crestline Sanitation District collected, treated and discharged 191.53 million gallons of wastewater in 2019. We had a total of 79 flow violations in 2019 in which 72 were 24 hour violations and 7 were peak violations. These violations were due to an immense amount of rain from December of 2018 to March of 2019. Rainfall recorded at Huston Creek Treatment plant for the calendar year of 2019 was 68.97 inches in which 48.53 inches occurred from January to March, also November and December had a combined 15.49 inches leaving 4.95 inches of rain from the other 7 months out of the year.

Throughout 2019 the Districts' Maintenance Crew systematically televised 7.5 miles of pipe. During 2019 the District Hydroed 20.4 miles of pipeline exceeding the Sanitary Sewer Management Plan (SSMP) mark of 15.2 miles for the year.

In 2019, Dudek Engineering & Environmental was contracted to help build an SRF loan package to enable CSD to upgrade much needed items in the treatment plant, identified by the Master Plan. CSD also contracted Jericho Environmental to conduct the CEQA work so CSD could submit the SRF package for 2020-2021 funding.

Dudek Engineering was also contracted for the engineering for the Houston Creek upgrades. Upgrades include 1 new Primary Clarifier to provide redundancy for 2 primary's that have been online since the early 1950's. This upgrade will allow for service and rehab of the 2 existing clarifiers. The project also will add redundancy for CSD's aging belt press, installed in 1984 which is in need of constant repair. This project will also include new recirculation pumps VFD controlled and a backup generator.

CSD has also been working on replacing the lighting in our buildings and treatment plants from fluorescent tubes to much more efficient LED lighting.

An Annual Audit of the District was performed in 2019 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 has continued to maintain a zero injury time loss safety program spanning four years.

CRESTLINE SANITATION DISTRICT

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Treatment Facility Total Volume Flows

YEAR: **2019**

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	18.09	7.37	0.395	22.69	0.00	empty
FEBRUARY	31.90	12.79	1.681	39.70	0.00	empty
MARCH	28.42	12.43	0.794	37.50	0.00	empty
APRIL	16.55	8.68	0.344	24.02	0.00	empty
MAY	16.30	10.15	0.413	26.23	0.00	empty
JUNE	13.39	8.06	0.702	22.35	0.00	empty
JULY	12.12	6.33	0.777	18.15	0.00	empty
AUGUST	11.14	6.49	0.456	15.04	0.00	empty
SEPTEMBER	9.64	4.39	0.362	14.13	0.00	empty
OCTOBER	11.00	4.45	0.110	13.81	0.00	empty
NOVEMBER	9.65	4.76	0.199	14.28	0.00	empty
DECEMBER	14.83	8.77	0.340	22.04	0.00	empty
2019 Treatment Facility Total Volume Flow						
Totals	193.03	94.68	6.57	269.93	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: **2019**

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	2.000	0.910	0.200	2.000	empty
FEBRUARY	3.600	1.140	0.680	5.420	empty
MARCH	1.940	0.720	0.340	2.000	empty
APRIL	0.900	0.480	0.130	1.280	empty
MAY	0.900	0.588	0.220	1.580	empty
JUNE	0.660	0.495	0.360	1.340	empty
JULY	0.630	0.465	0.360	1.100	empty
AUGUST	0.560	0.390	0.280	0.960	empty
SEPTEMBER	0.600	0.360	0.160	1.120	empty
OCTOBER	0.570	0.330	0.060	0.860	empty
NOVEMBER	0.680	0.375	0.200	1.080	empty
DECEMBER	1.160	0.600	0.170	1.600	empty
2019 Treatment Facility Maximum Instantaneous Flow Rate					
Maximum	3.600	1.140	0.680	5.420	

CRESTLINE SANITATION DISTRICT

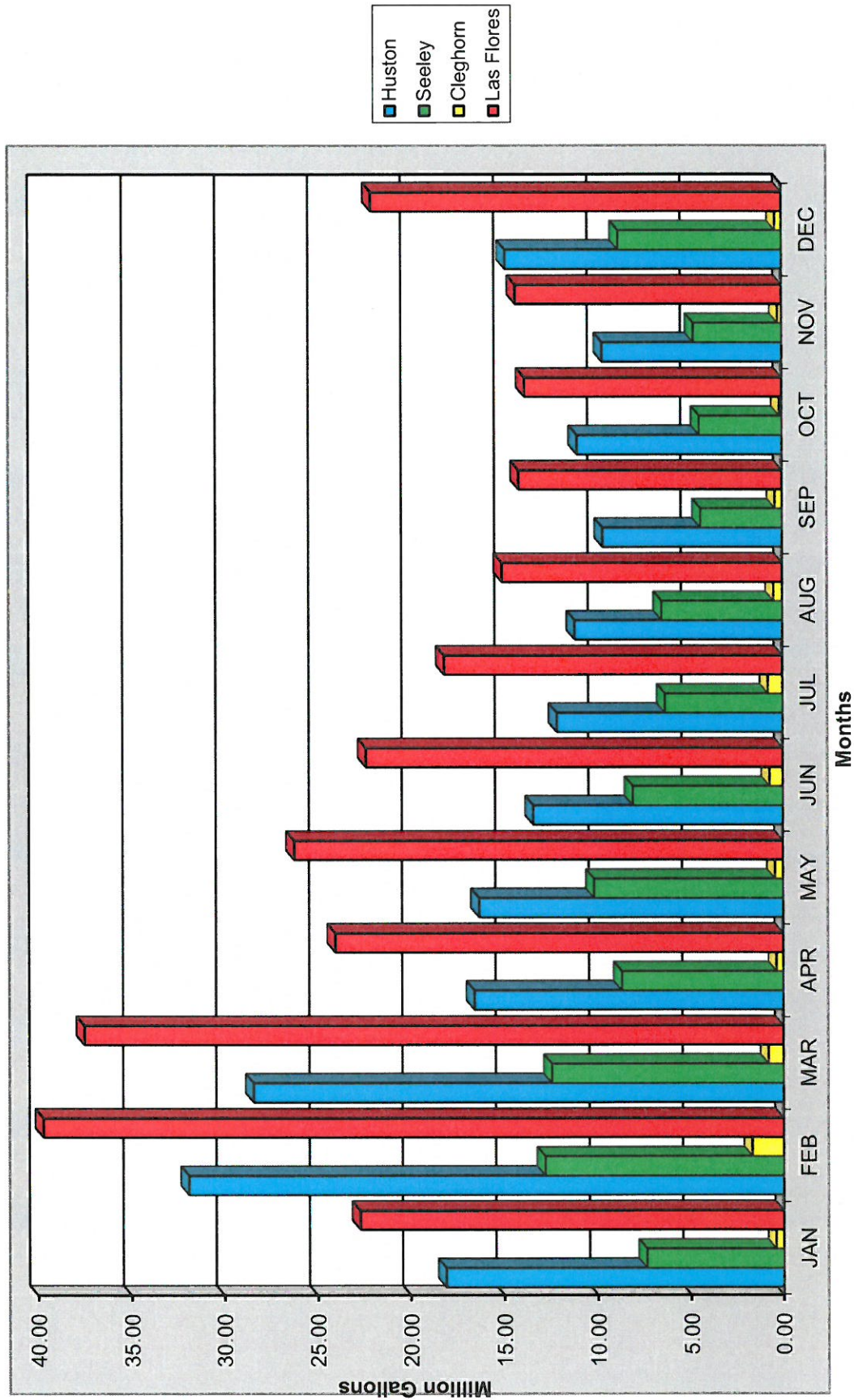
ANNUAL REPORT

Treatment Facility Average Flow Rates

Year: **2019**

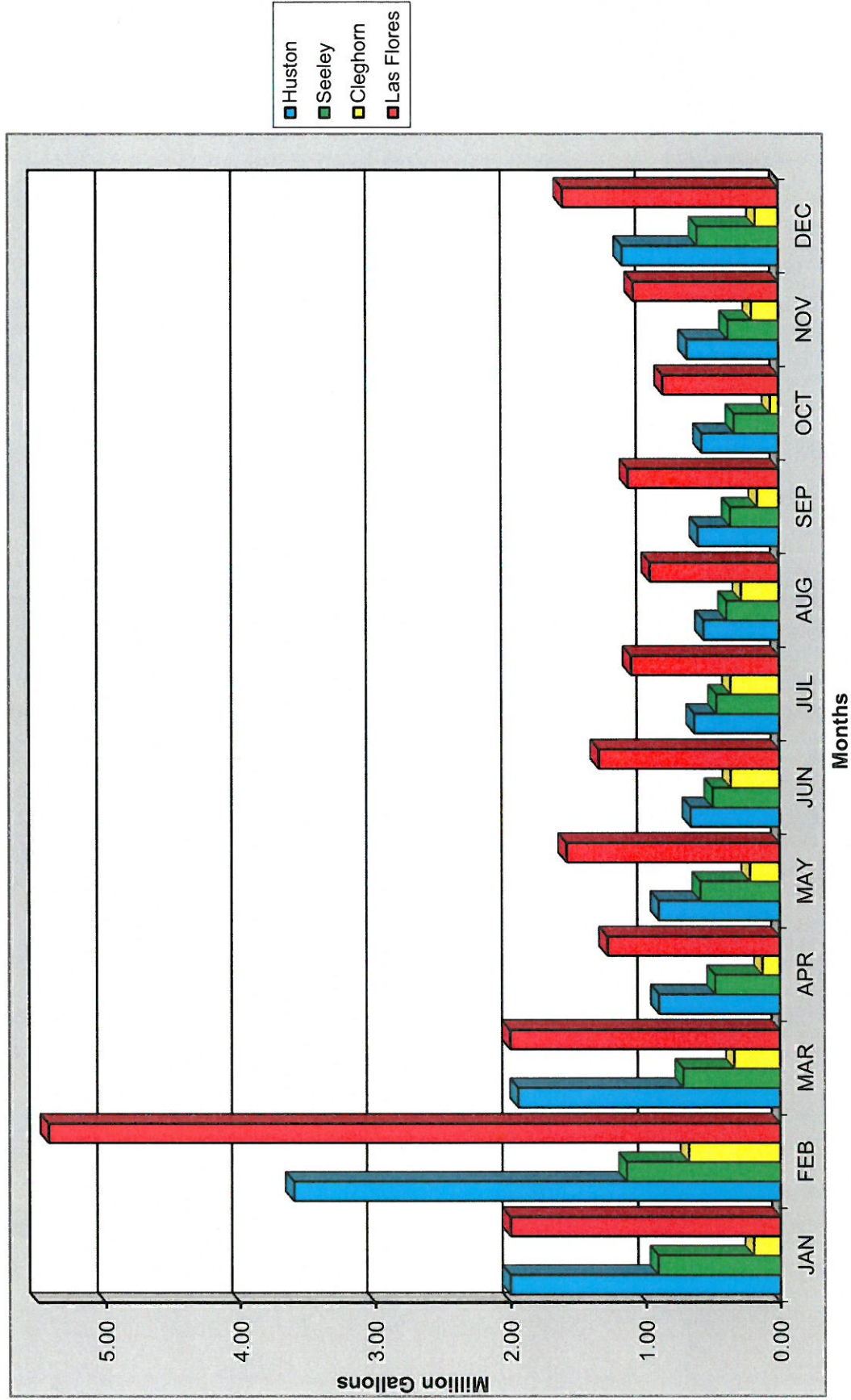
Site	Huston Creek	Seeley Creek	Cleghorn	Las Flores	Las Flores
Readings	daily	daily	daily	daily	daily
Violations					
Design limits	0.7 mg/d average	0.5 mg/d average	0.2 mg/d average		
	average flow month	average flow month	average flow month	average flow month	average flow month
All flows in million gallons per day					
	Huston	Seeley	Cleghorn	District Effluent	Flow to ponds
JANUARY	0.499	0.238	0.013	0.732	empty
FEBRUARY	1.008	0.457	0.060	1.418	empty
MARCH	0.788	0.401	0.026	1.210	empty
APRIL	0.485	0.289	0.011	0.801	empty
MAY	0.534	0.327	0.013	0.846	empty
JUNE	0.439	0.269	0.023	0.745	empty
JULY	0.392	0.204	0.025	0.585	empty
AUGUST	0.346	0.209	0.015	0.485	empty
SEPTEMBER	0.335	0.146	0.012	0.471	empty
OCTOBER	0.321	0.143	0.004	0.445	empty
NOVEMBER	0.322	0.159	0.007	0.476	empty
DECEMBER	0.478	0.283	0.011	0.711	empty
2019 Treatment Facility Average Flow Rate					
Average	0.496	0.260	0.018	0.744	

CRESTLINE SANITATION DISTRICT
 Treatment Facility Total Volume Flows - 2019



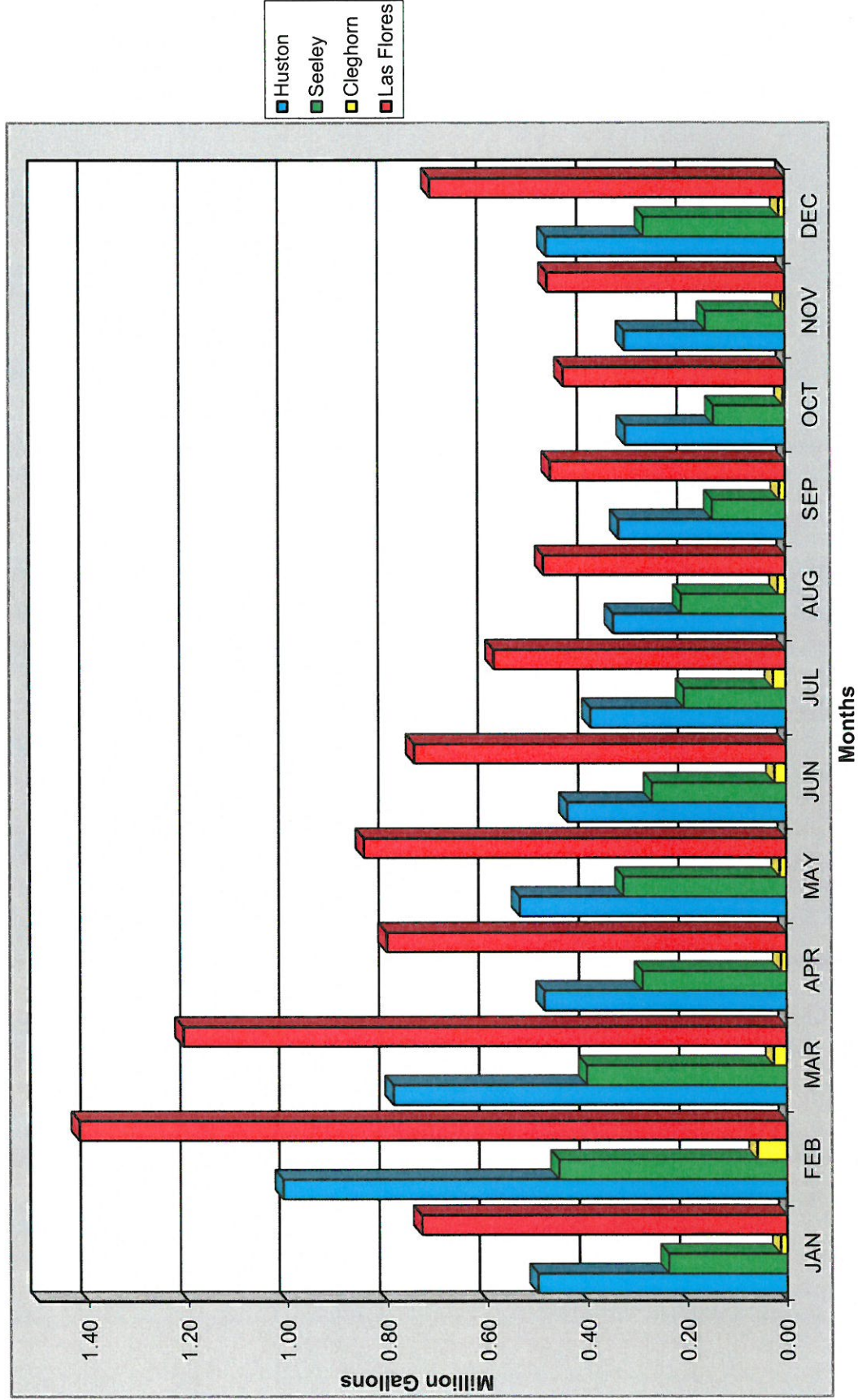
CRESTLINE SANITATION DISTRICT

Treatment Facility Maximum Instantaneous Flow Rate - 2019

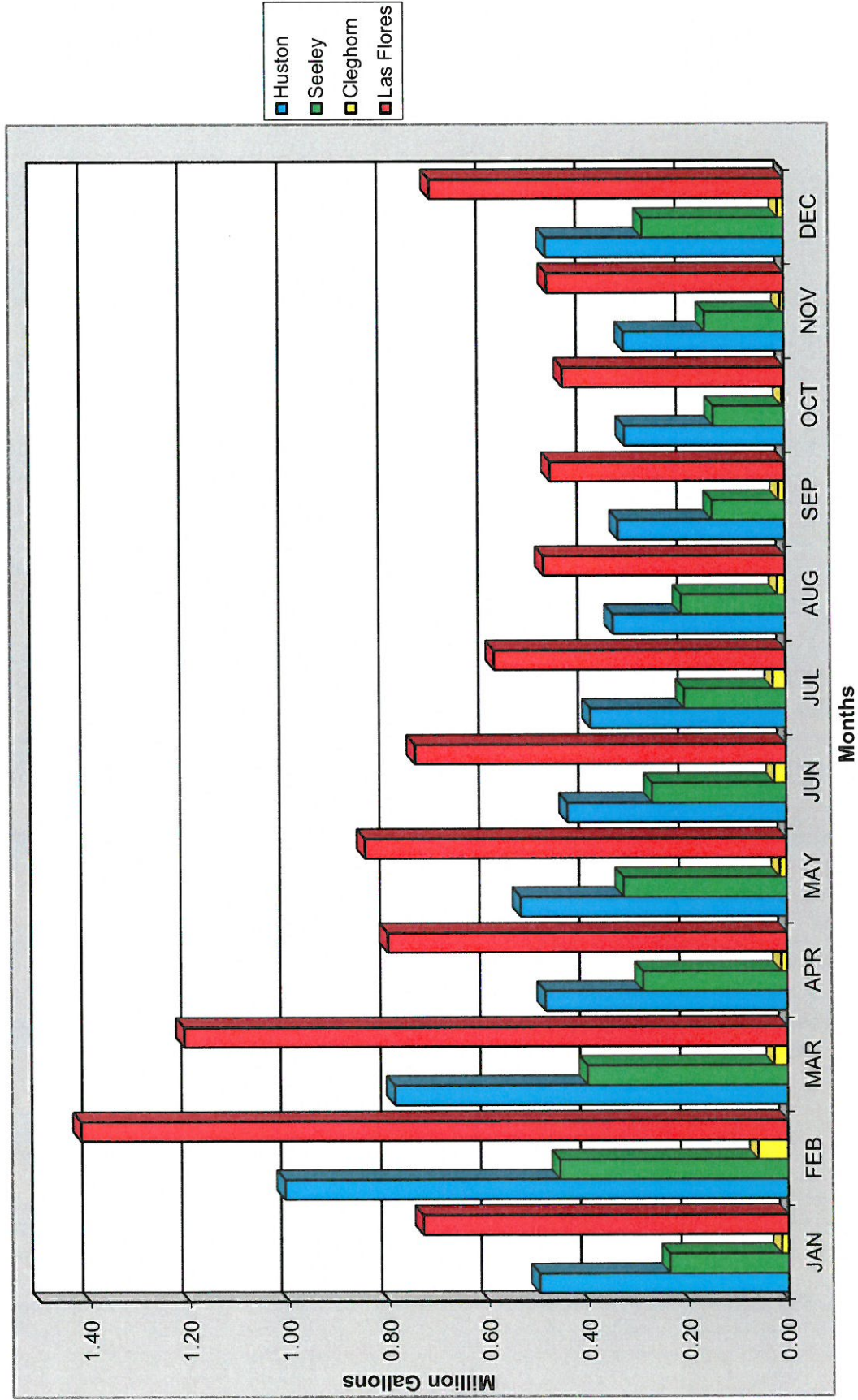


CRESTLINE SANITATION DISTRICT

Treatment Facility Average Flow Rates - 2019



CRESTLINE SANITATION DISTRICT
 Treatment Facility Average Flow Rates - 2019



CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Effluent Monitoring - Treatment Facilities
Monthly Median / Averages

Year: **2019**

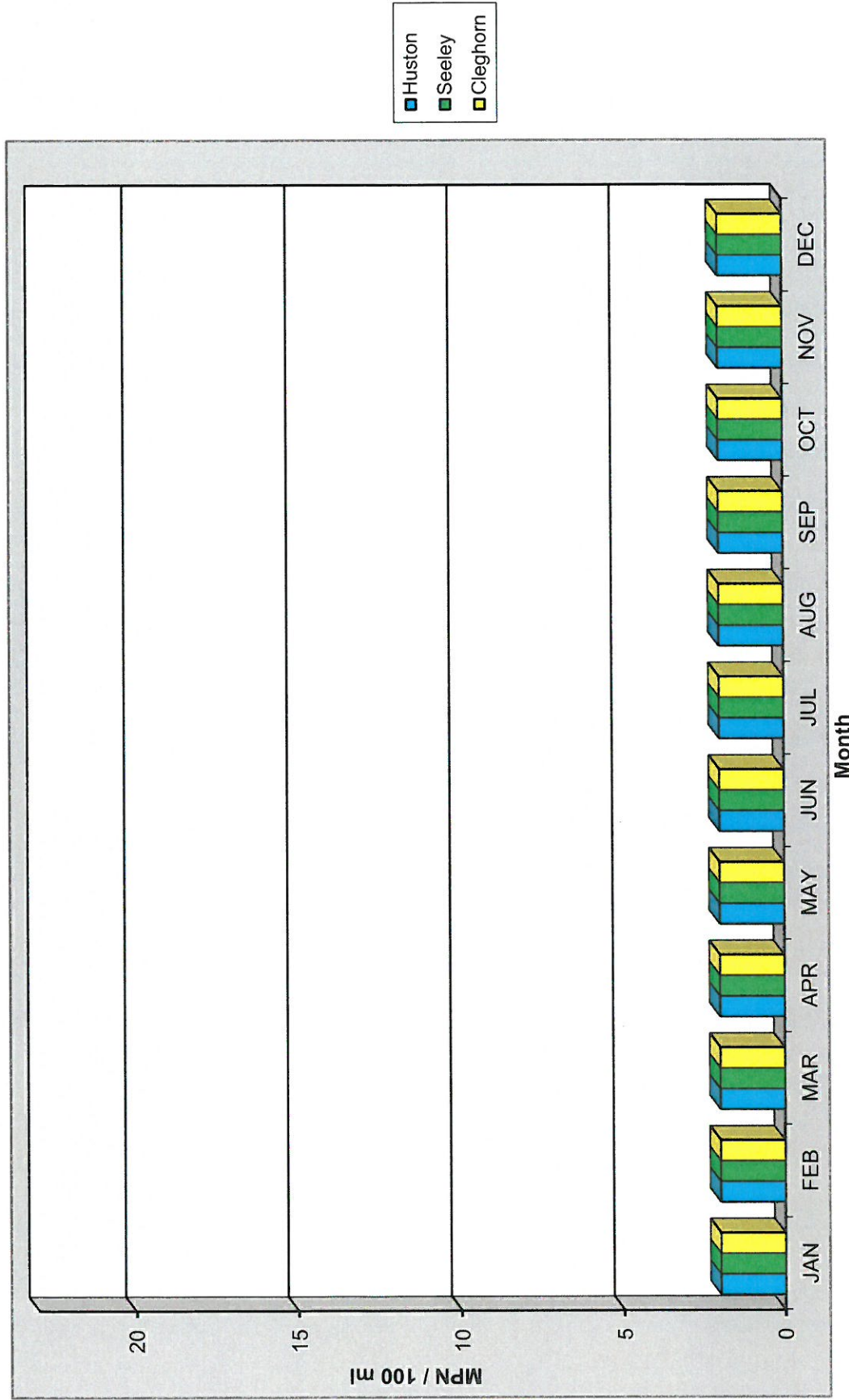
Site	Huston Creek			Seeley Creek			Cleghorn		
	Disinfected Final Effluent	2 / week	daily	Disinfected Final Effluent	2 / week	daily	Disinfected Final Effluent	2 / week	daily
Sample	23 / 100 ml *	D	M	23 / 100 ml *	D	M	23 / 100 ml *	D	M
Frequency Requirement									
Purpose									
Violations									
Test	Total Coliform		Chlorine Residual	Total Coliform		Chlorine Residual	Total Coliform		Chlorine Residual
month	MPN	mg/l	MPN	MPN	mg/l	MPN	MPN	mg/l	mg/l
JANUARY	2	15.6	2	2	9.5	2	2	8.7	
FEBRUARY	2	6.6	2	2	4.8	2	2	6.3	
MARCH	2	8.2	2	2	3.7	2	2	6.9	
APRIL	2	9.7	2	2	6.5	2	2	8.3	
MAY	2	8.8	2	2	6.8	2	2	6.6	
JUNE	2	12.6	2	2	8.3	2	2	6.3	
JULY	2	13.3	2	2	6.5	2	2	5.5	
AUGUST	2	12.8	2	2	5.2	2	2	6.9	
SEPTEMBER	2	14.6	2	2	3.9	2	2	6.2	
OCTOBER	2	14.7	2	2	3.9	2	2	10.9	
NOVEMBER	2	14.4	2	2	8.5	2	2	11.4	
DECEMBER	2	9.6	2	2	6.0	2	2	15.5	

D - Sample has Effluent / Discharge Limitations

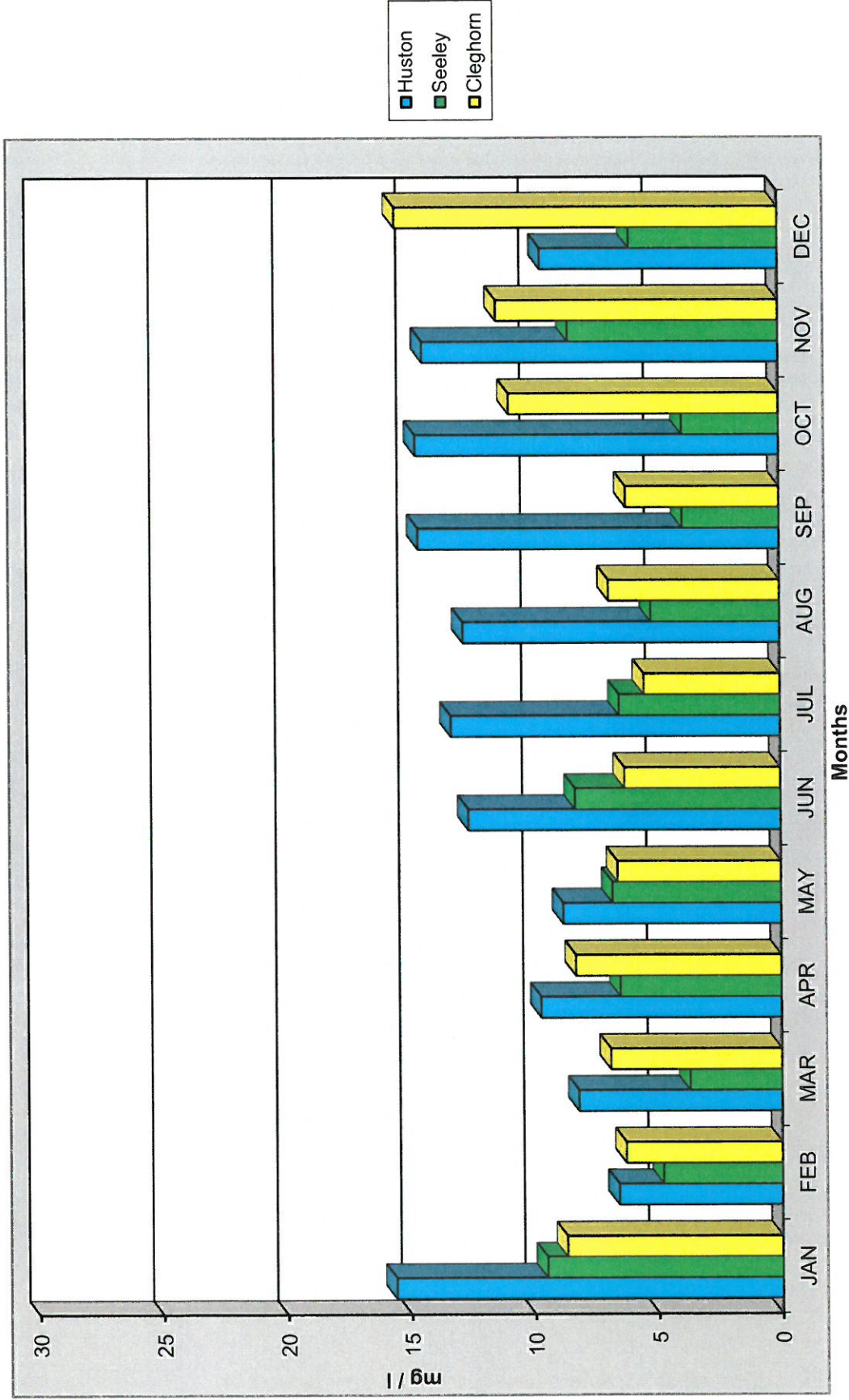
M - Sample has Effluent Monitoring Requirements

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

CRESTLINE SANITATION DISTRICT
 Treatment Facilities - Final Effluent Total Coliform - 2019



CRESTLINE SANITATION DISTRICT
 Treatment Facilities - Final Effluent Chlorine Residual - 2019



CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Effluent Monitoring
District Final Effluent - Monitoring Data
Las Flores Ranch Irrigation / Percolation

Year: **2019**

Sample Frequency	2 / Week	2 / Week	Weekly	Weekly	2 / Month	2 / Month	2 / Month	2 / Month	2 / Month	Monthly	Monthly	Monthly
Violations												
Sample Type			DM	DM	DM	M	DM	M	M	M	M	M
Maximum			0.5 ml/l	< 9	45.0		2.0		A	A	A	A
Mean/Minimum				> 1.0	30.0		1.0					
Median												
23 / 100 *												
Total Coliform		CL2 Res	Settleable Solids	D. O.	BOD	COD	MBAS	Oil & Grease	TKN	NO3-N	NH3-N	
MPN	mg/l	mg/l	ml/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
JANUARY	2	5.0	<0.10	9.1	25.8	79.5	ND	ND	15.00	9.40	14.30	14.30
FEBRUARY	2	5.1	<0.10	9.0	25.5	61.5	ND	ND	15.00	10.40	14.30	14.30
MARCH	2	5.0	<0.10	9.8	24.0	62.5	ND	ND	14.80	10.40	14.20	14.20
APRIL	2	5.5	<0.10	8.8	23.0	72.0	ND	ND	12.20	10.60	12.00	12.00
MAY	2	4.8	<0.10	8.3	23.0	59.5	ND	ND	16.00	12.70	15.30	15.30
JUNE	2	4.6	<0.10	7.9	23.3	65.0	ND	ND	14.80	11.80	14.60	14.60
JULY	2	3.7	<0.10	7.8	23.0	119.0	ND	ND	14.50	12.50	14.00	14.00
AUGUST	2	3.5	<0.10	7.2	19.3	54.5	ND	ND	15.00	10.80	14.50	14.50
SEPTEMBER	2	3.3	<0.10	7.3	19.0	64.0	ND	ND	15.00	11.90	14.30	14.30
OCTOBER	2	3.8	<0.10	7.1	21.8	65.0	ND	ND	15.00	12.50	14.50	14.50
NOVEMBER	2	3.5	<0.10	8.1	21.5	60.5	ND	ND	16.00	11.90	15.60	15.60
DECEMBER	2	3.9	<0.10	8.1	21.5	64.5	ND	ND	15.50	12.40	15.20	15.20
AVERAGES		4.3	< 0.10	8.2	22.6	69.0	ND	ND	14.90	11.44	14.40	14.40

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 milliliters and does not exceed 240/100 milliliters in any two consecutive samples

CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Effluent Monitoring
District Final Effluent - Monitoring Data
Las Flores Ranch Irrigation / Percolation

Year: **2019**

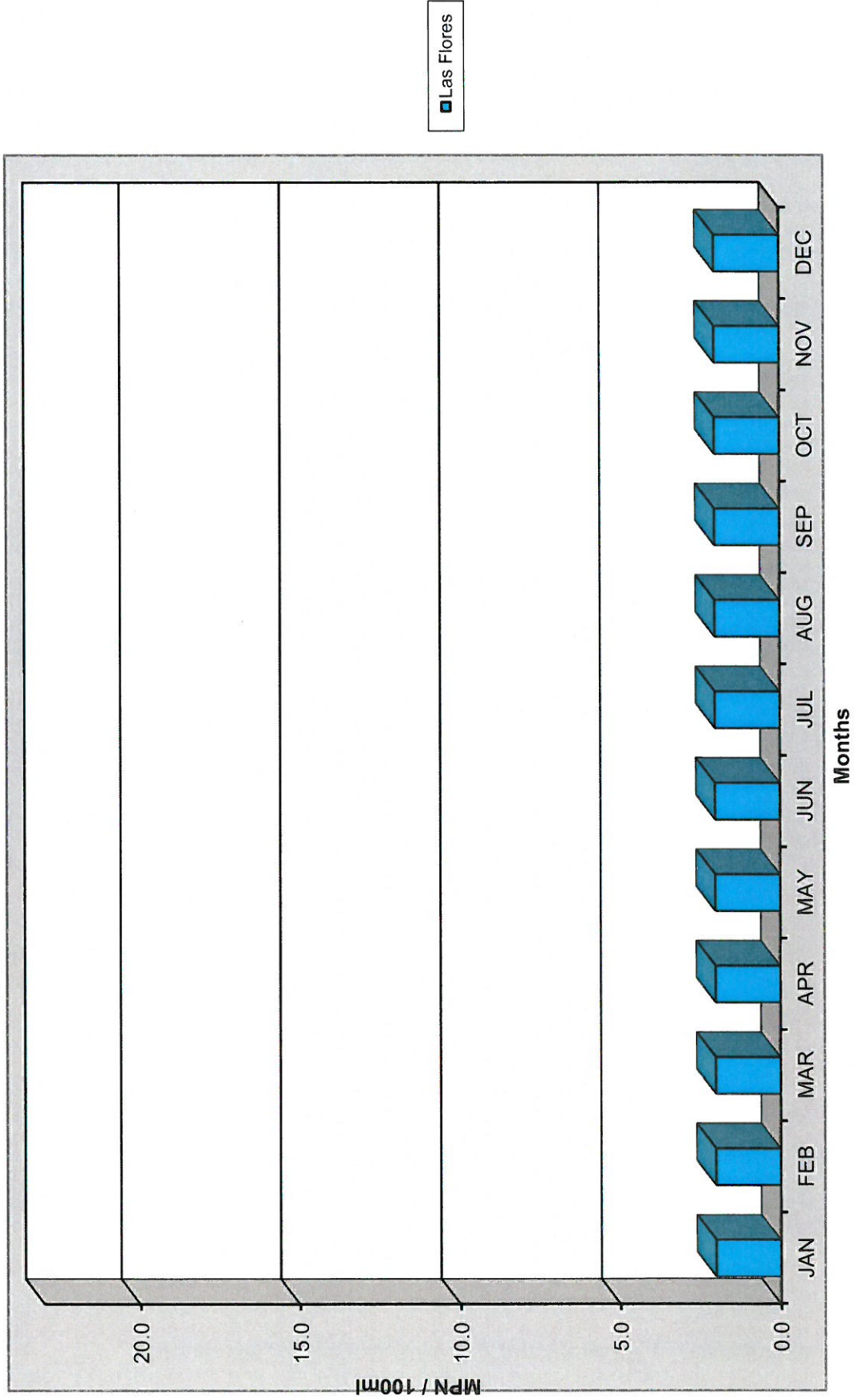
Sample Frequency	Semiannual Testing						Annual Testing					
	M	M	M	M	M	M	M	M	M	M	M	M
Violations												
Sample Type	M	M	M	M	M	M	M	M	M	M	M	M
Mean/Minimum	A	A	A	A	A	A	A	A	A	A	A	A
Median												
Test	TDS	Chloride	Sodium	Sulfate	Boron	Flouride	Total Cyanides	Total Phenols	Base/Neutral/Acid Extractable 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	340.0	87.8	59.0	83.5	0.11	0.24					
	APRIL											
	MAY											
	JUNE											
	JULY											
	AUGUST											
	SEPTEMBER	550	129.0	110.0	141.0	0.60	A	A	A	A	A	
	OCTOBER											
	NOVEMBER											
	DECEMBER											

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

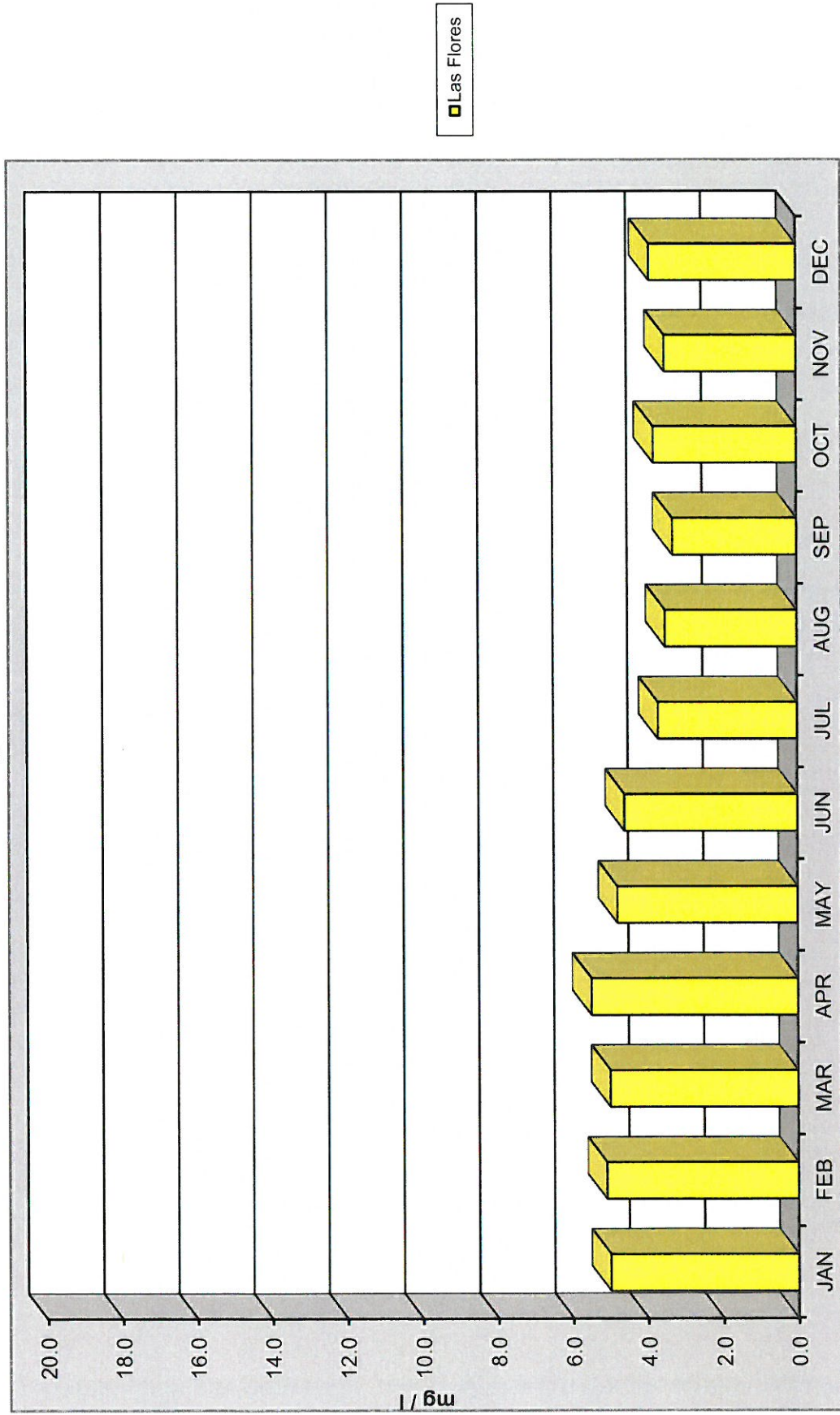
A - For Sample Results see Appendix " A "

CRESTLINE SANITATION DISTRICT

District Final Effluent - Median Total Coliform - 2019



CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average Chlorine Residual - 2019

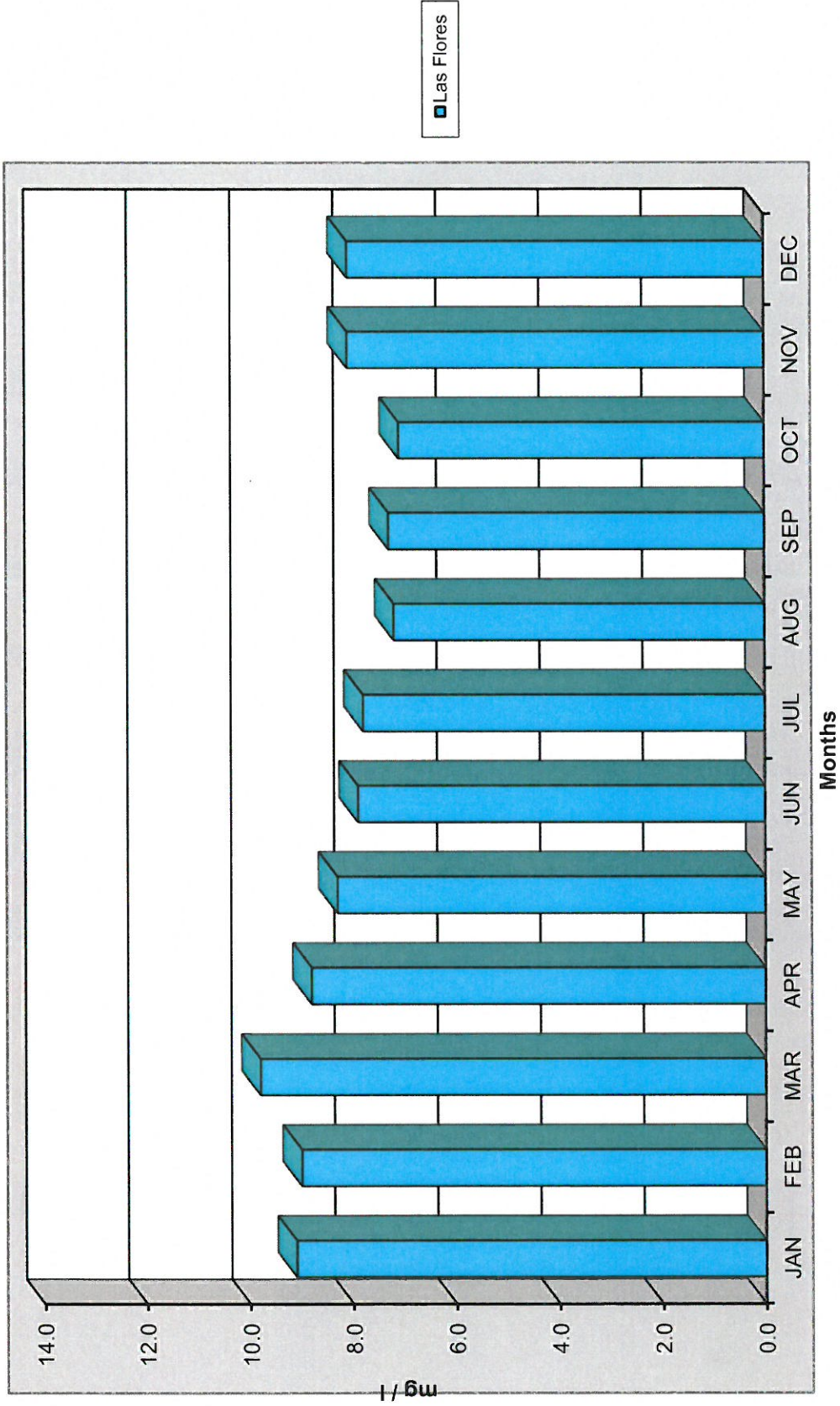


CRESTLINE SANITATION DISTRICT

District Final Effluent - Average Settleable Solids - 2019

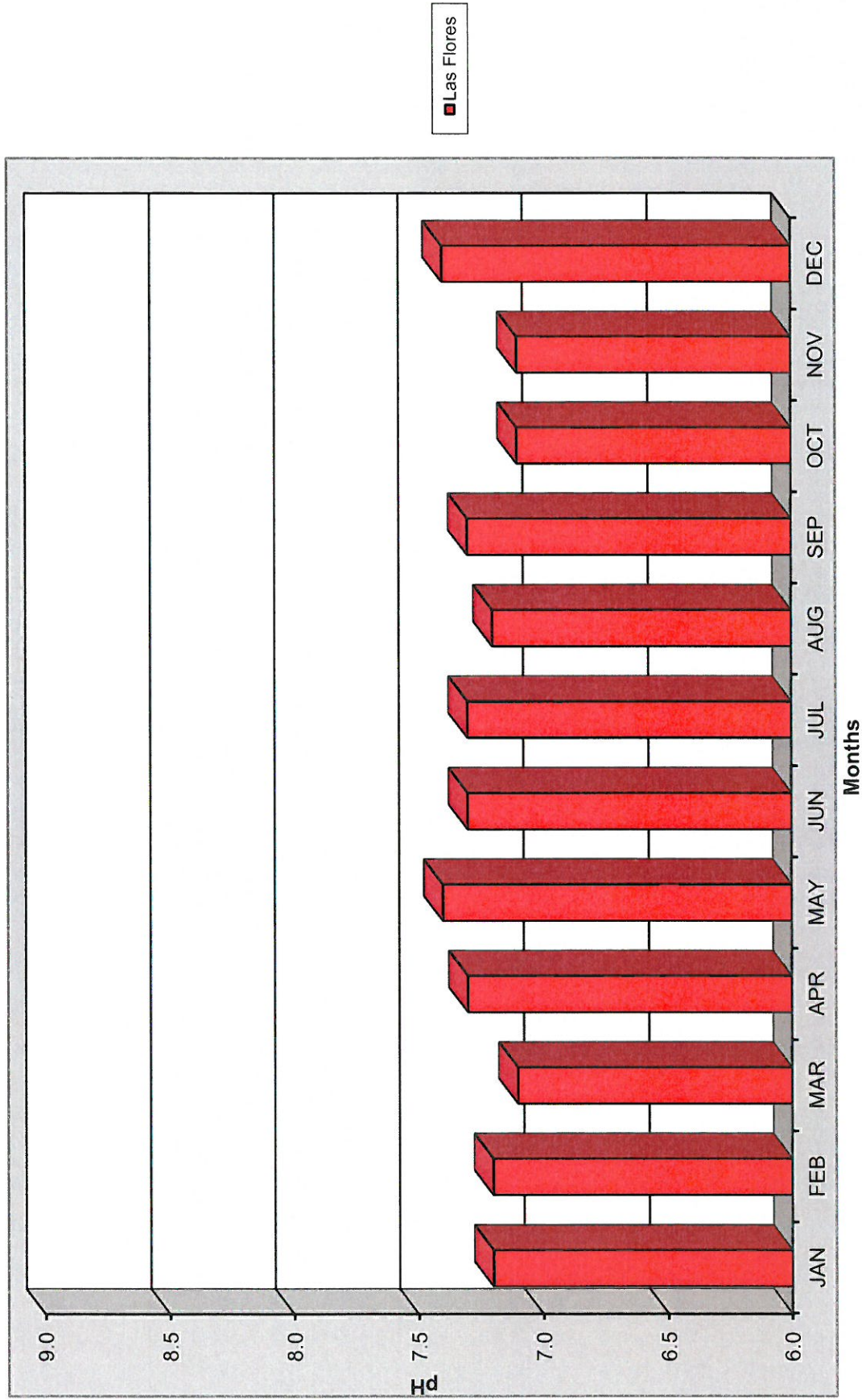


CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average Dissolved Oxygen - 2019

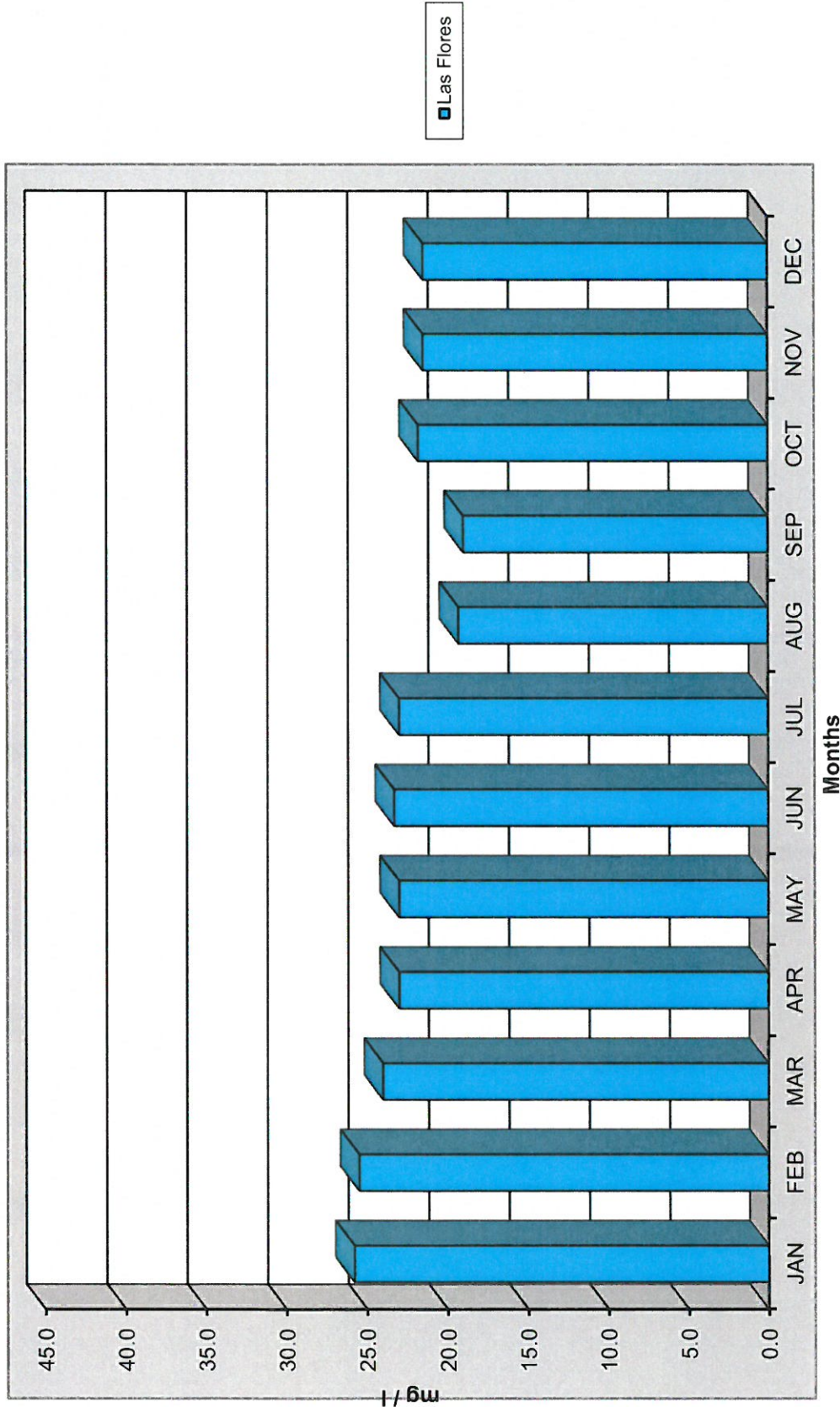


CRESTLINE SANITATION DISTRICT

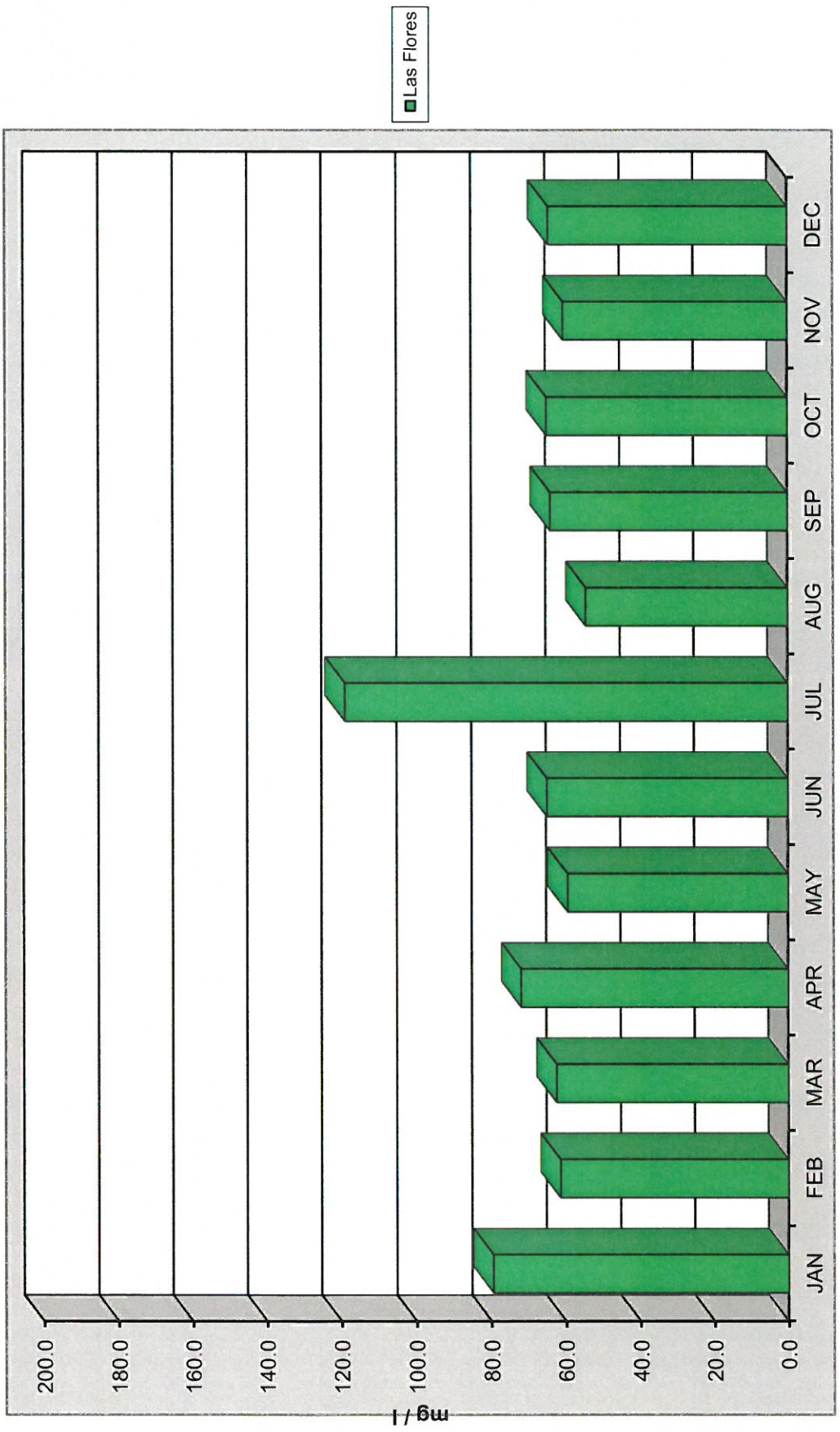
District Final Effluent - pH - 2019



CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average BOD - 2019

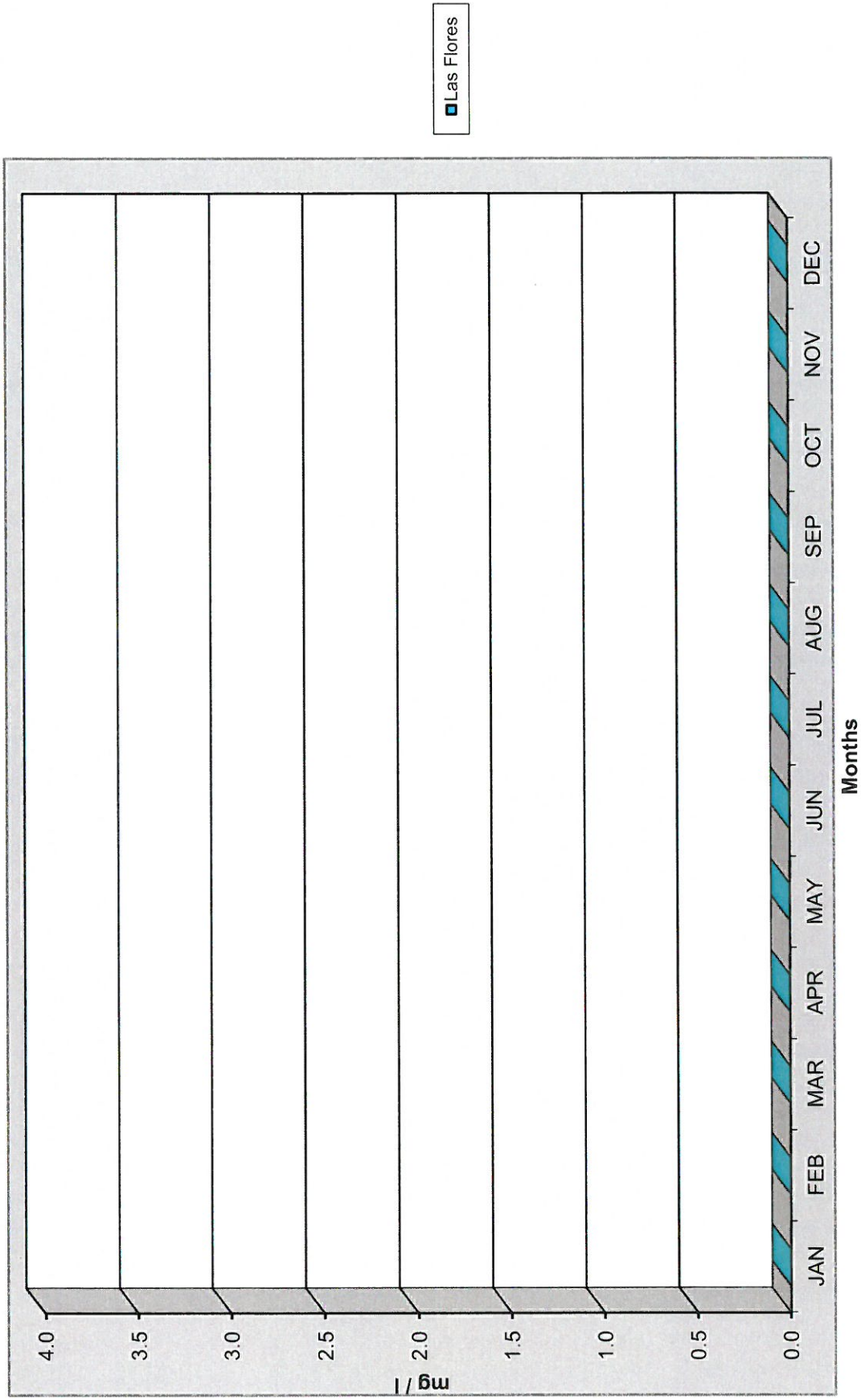


CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average COD - 2019

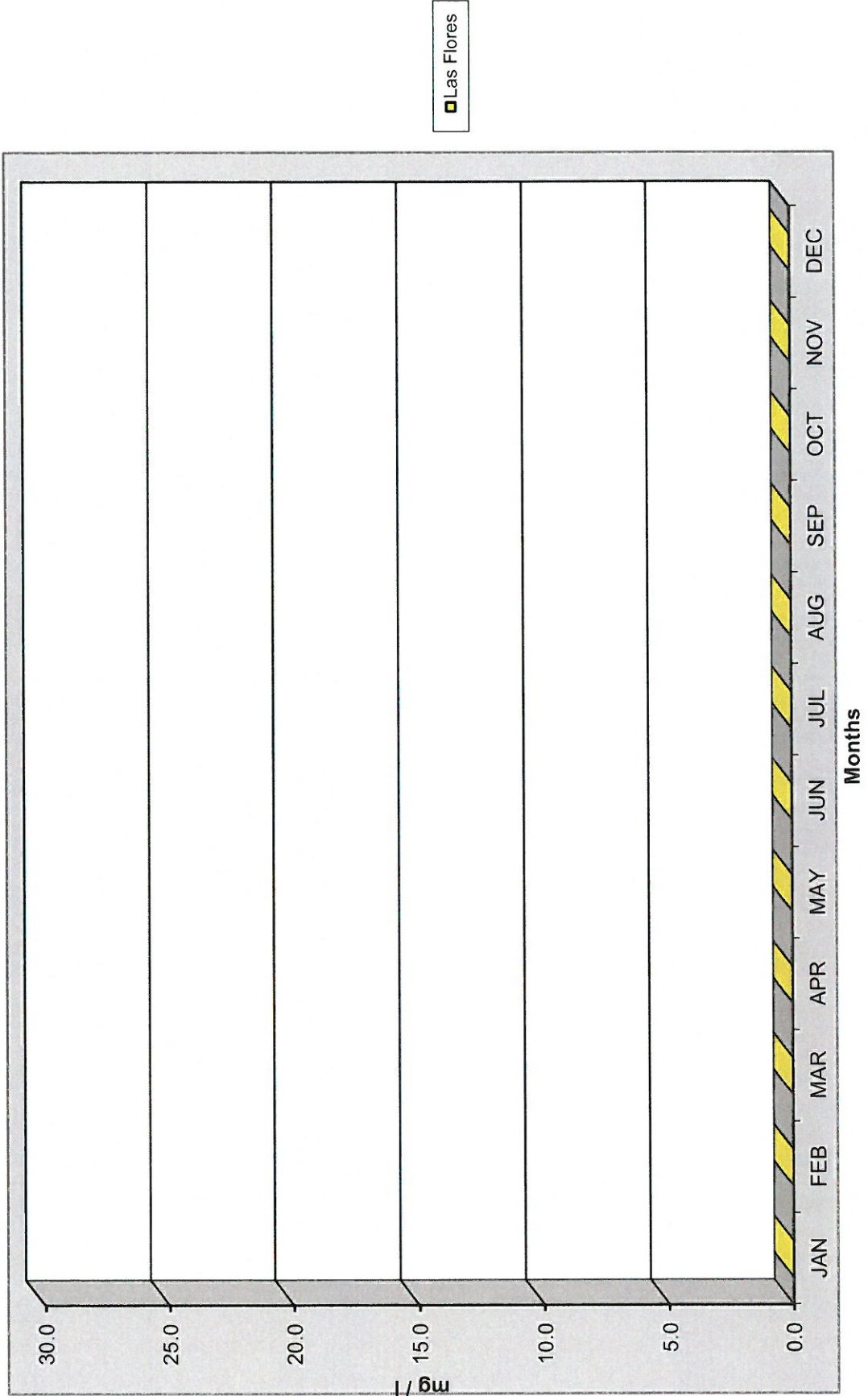


CRESTLINE SANITATION DISTRICT

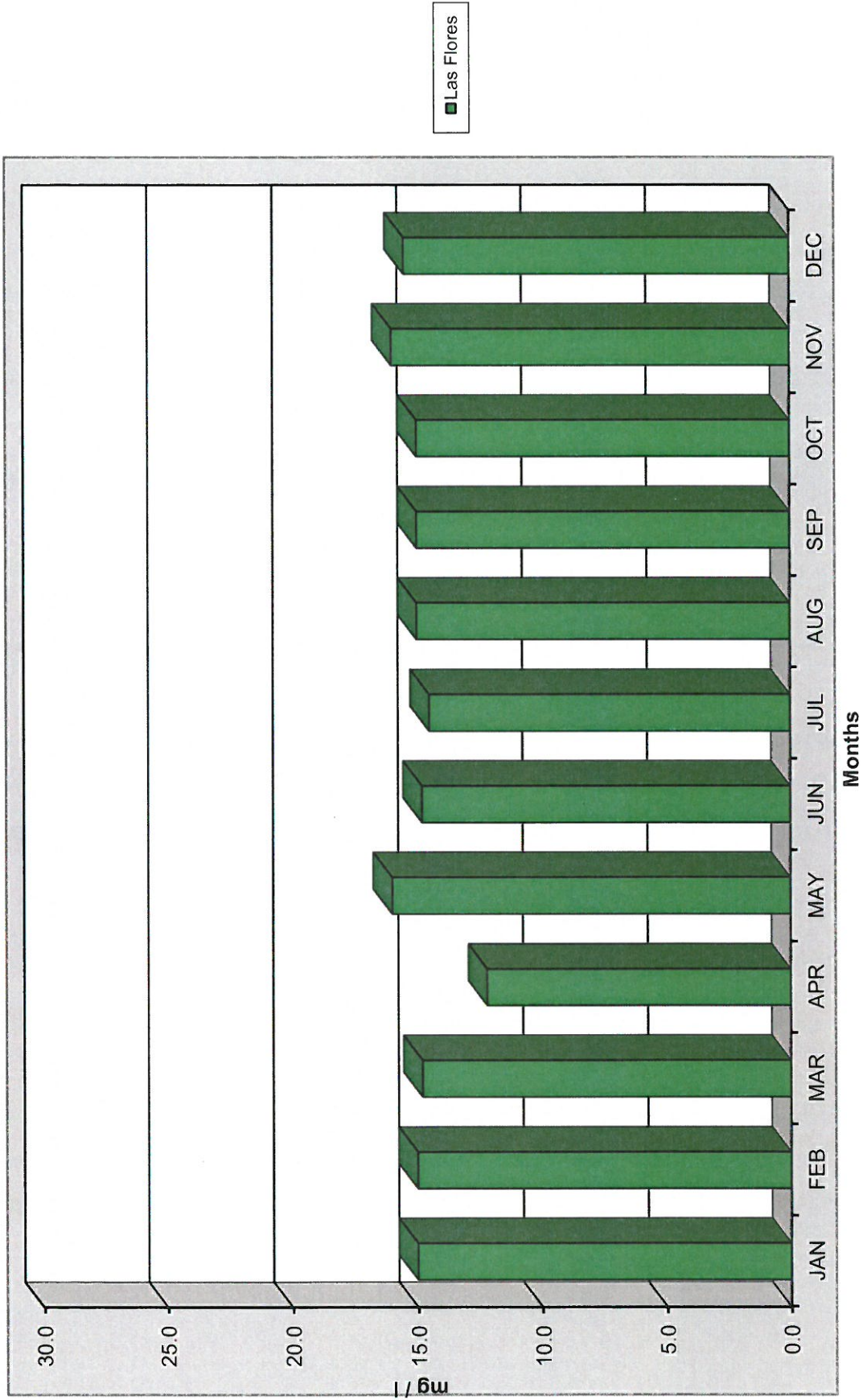
District Final Effluent - Average MBAS - 2019



CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average Oil & Grease - 2019



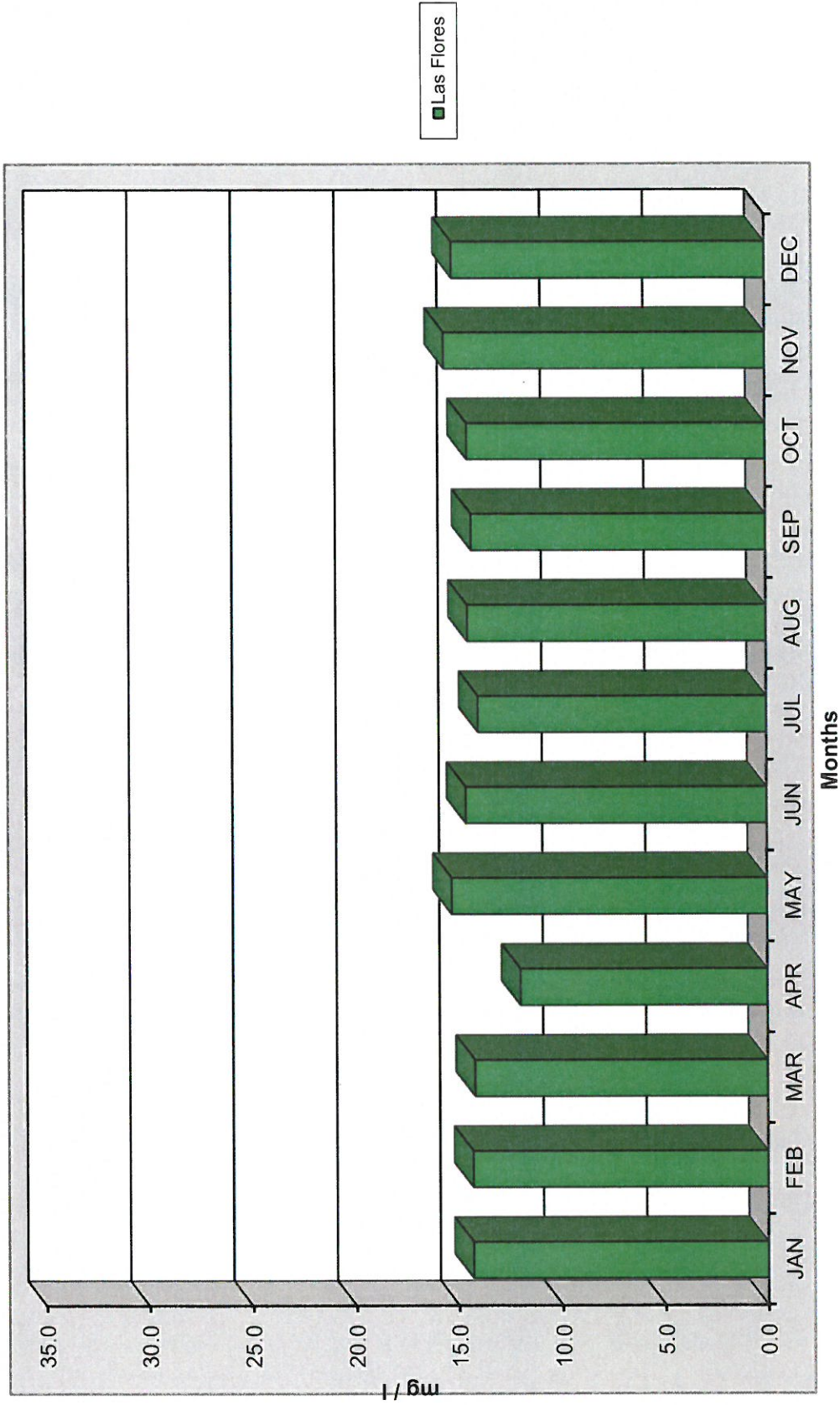
CRESTLINE SANITATION DISTRICT
District Final Effluent - Average Kjeldahl Nitrogen - 2019



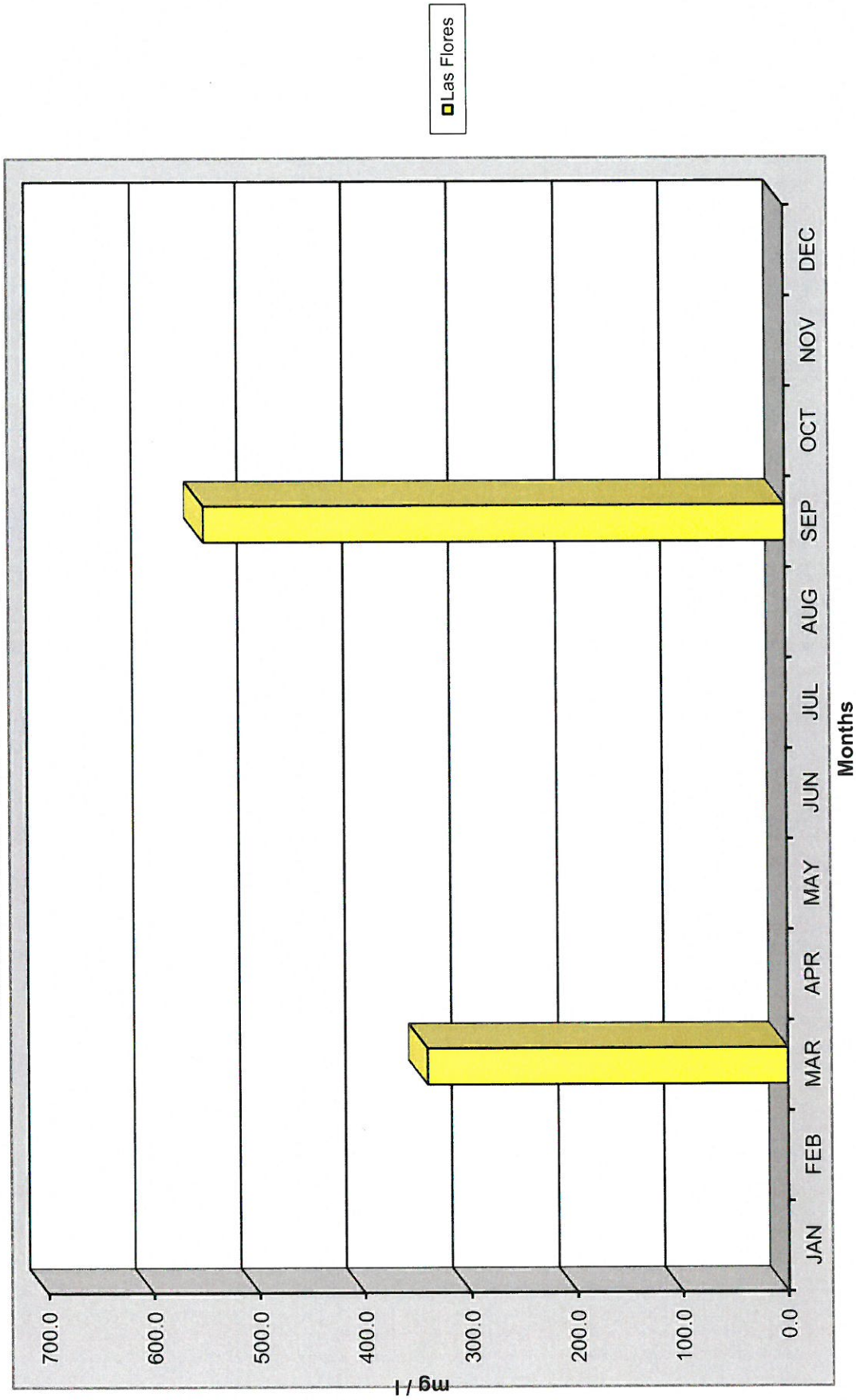
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average Nitrate Nitrogen -2019



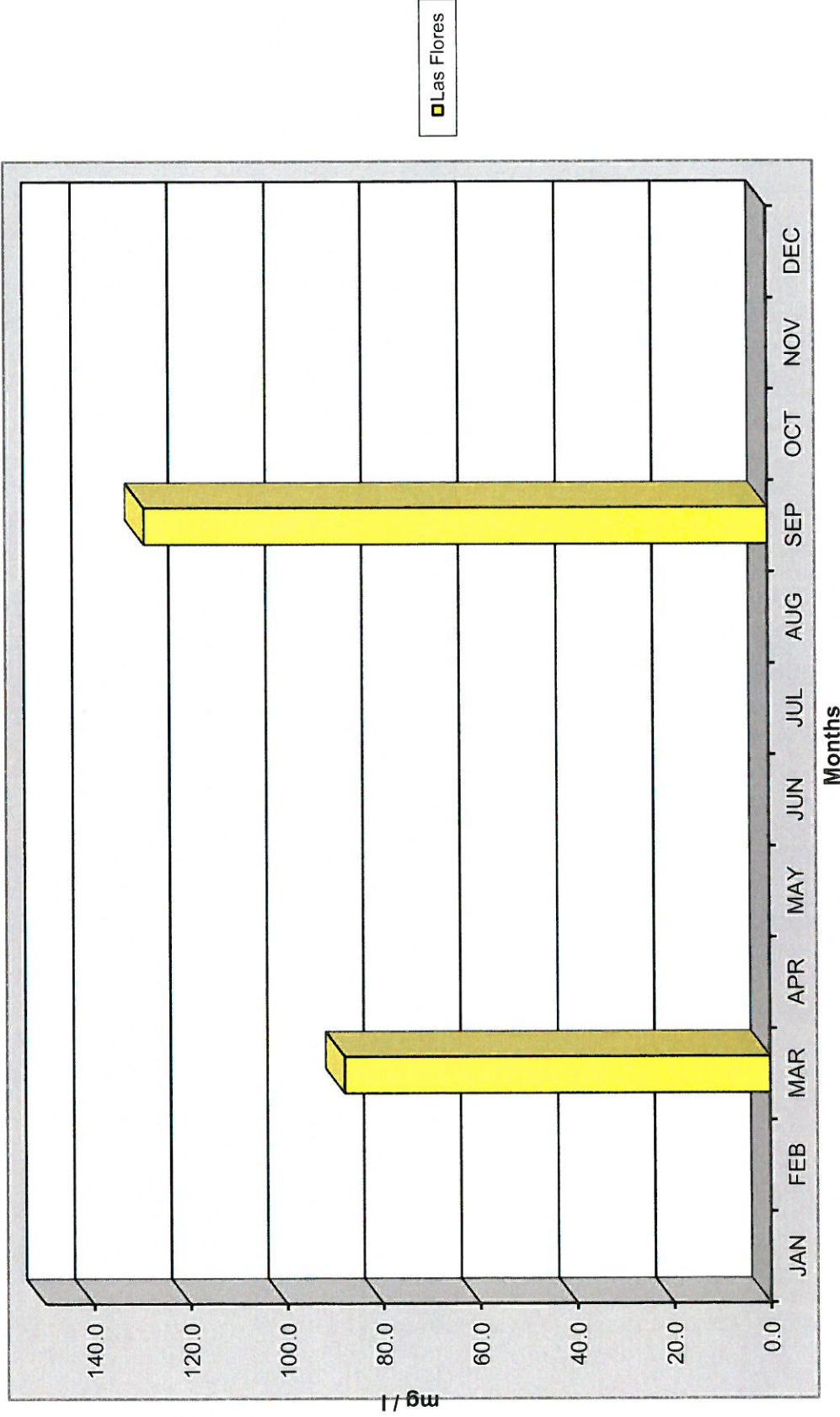
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Average Ammonia Nitrogen - 2019



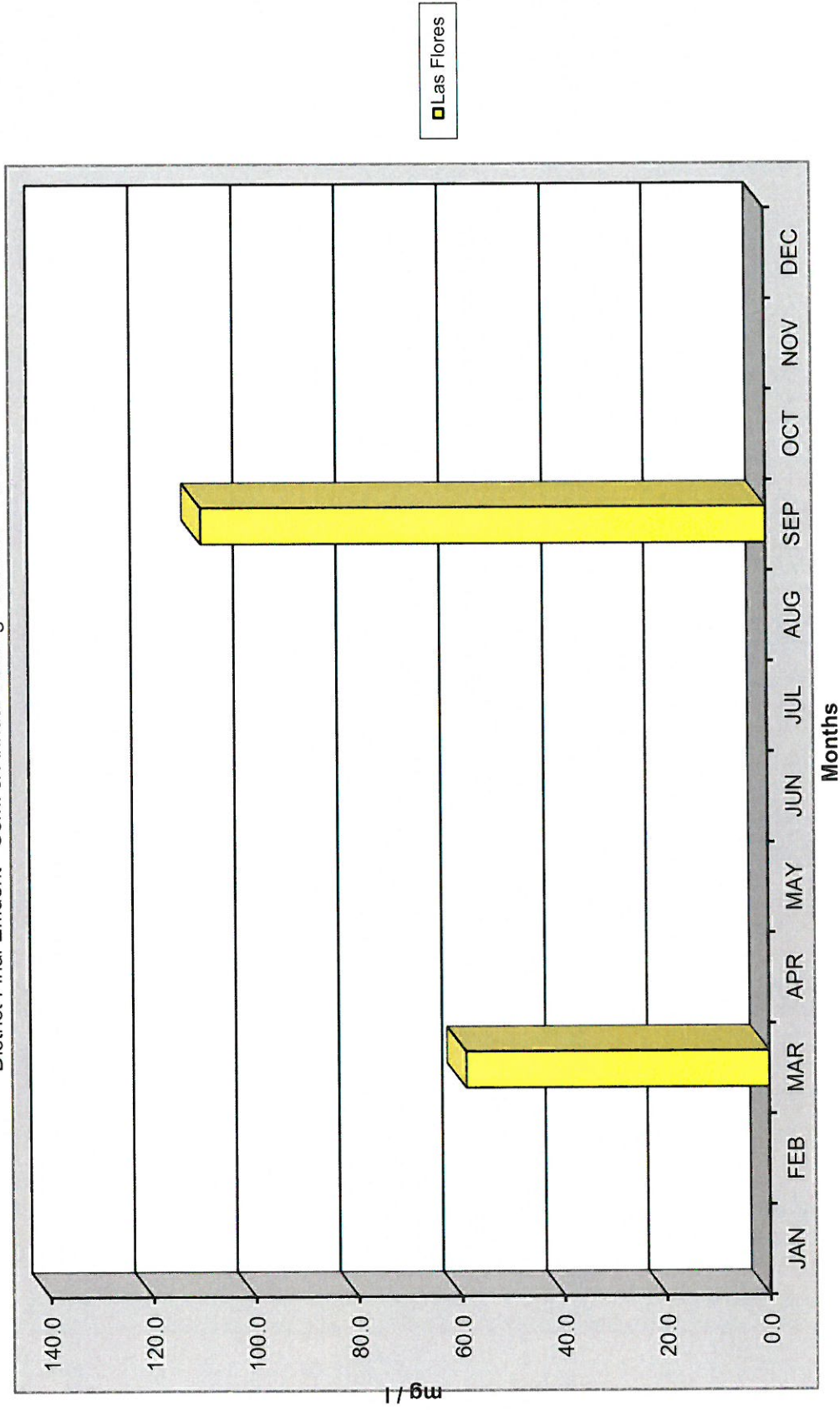
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - TDS - 2019



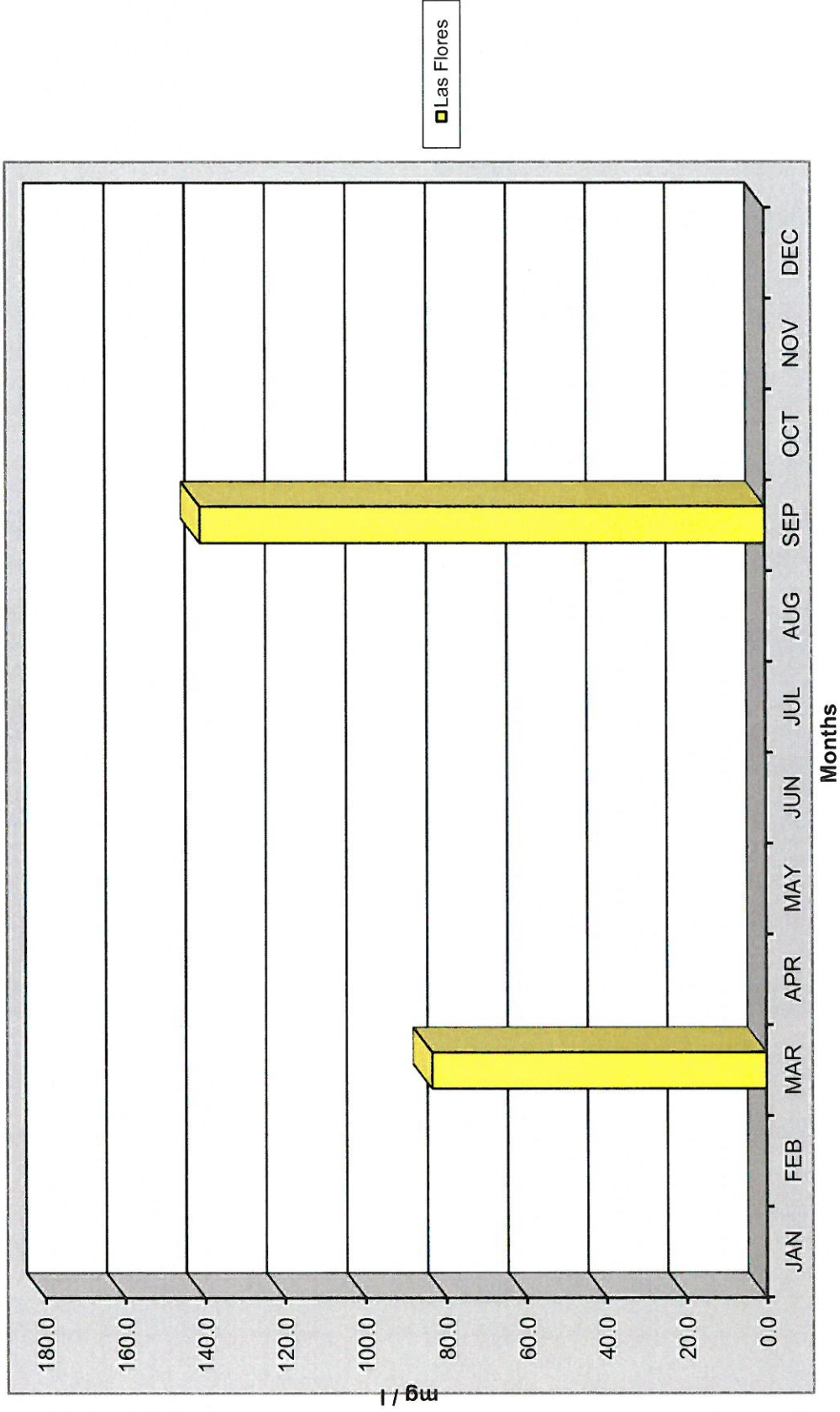
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - Chloride - 2019



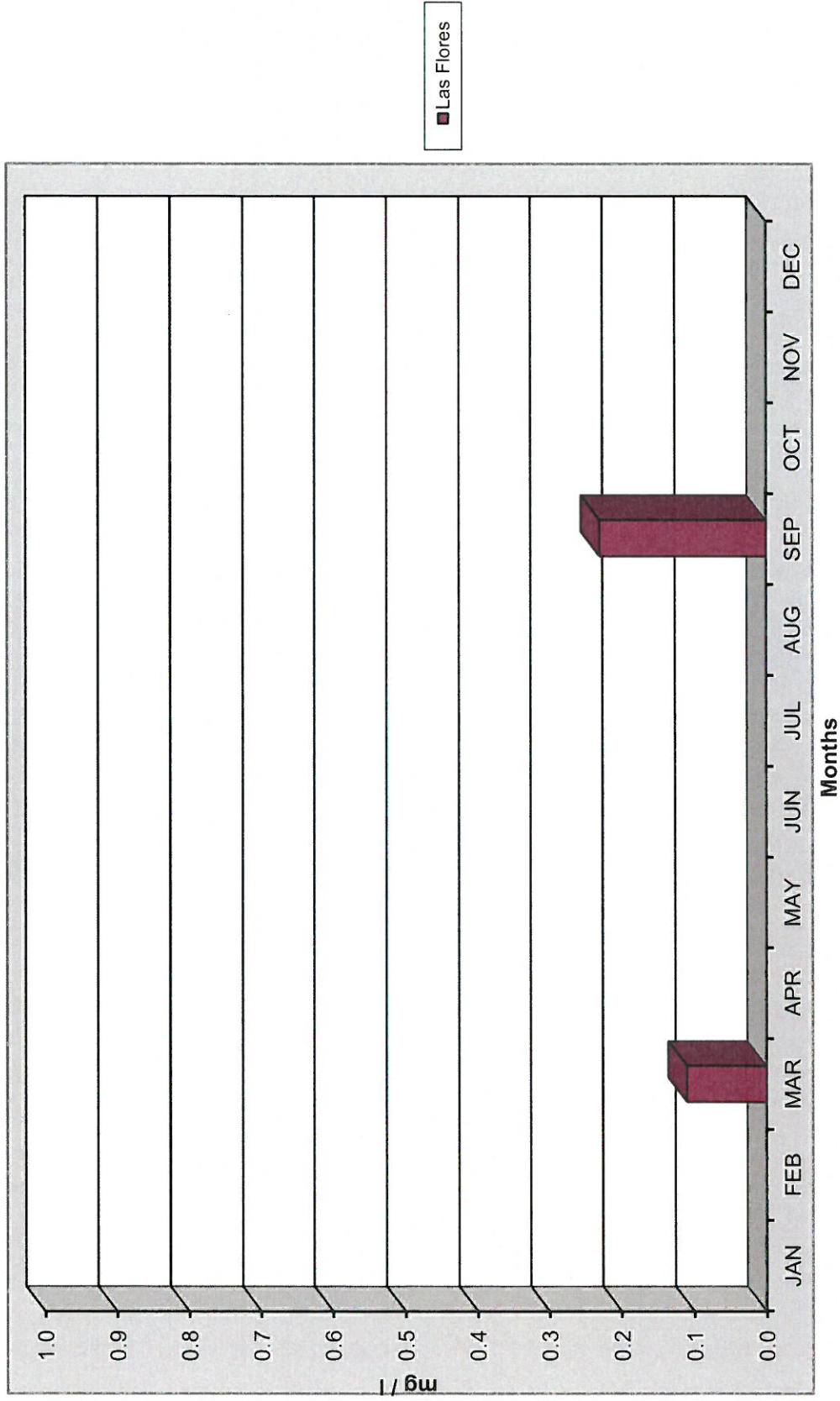
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - Sodium - 2019



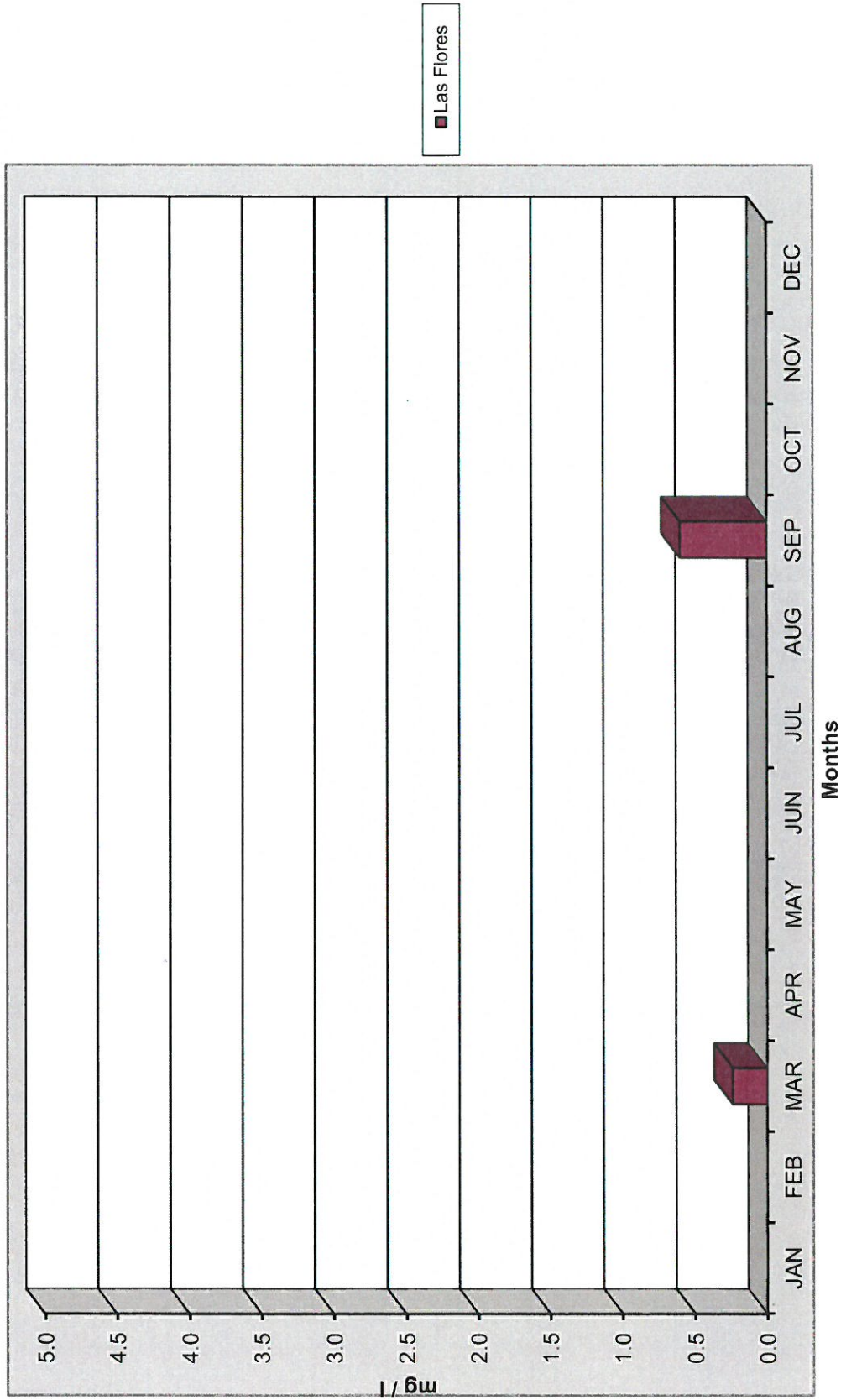
CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - Sulfate - 2019



CRESTLINE SANITATION DISTRICT
District Final Effluent - Semi & Annual Testing - Boron - 2019



CRESTLINE SANITATION DISTRICT
 District Final Effluent - Semi & Annual Testing - Flouride - 2019



**CRESTLINE SANITATION DISTRICT
ANNUAL REPORT**

Sludge Monitoring

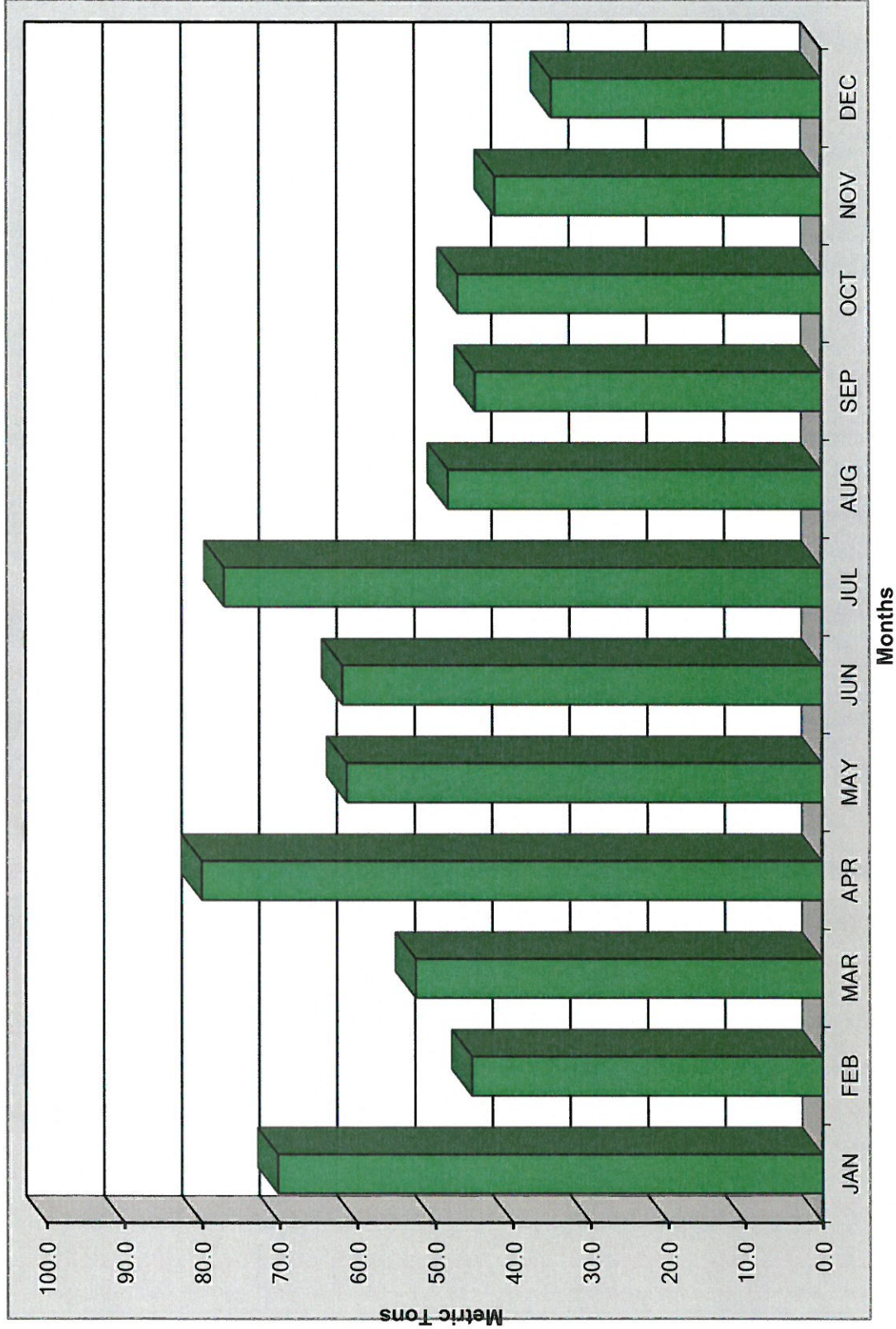
Year: 2019

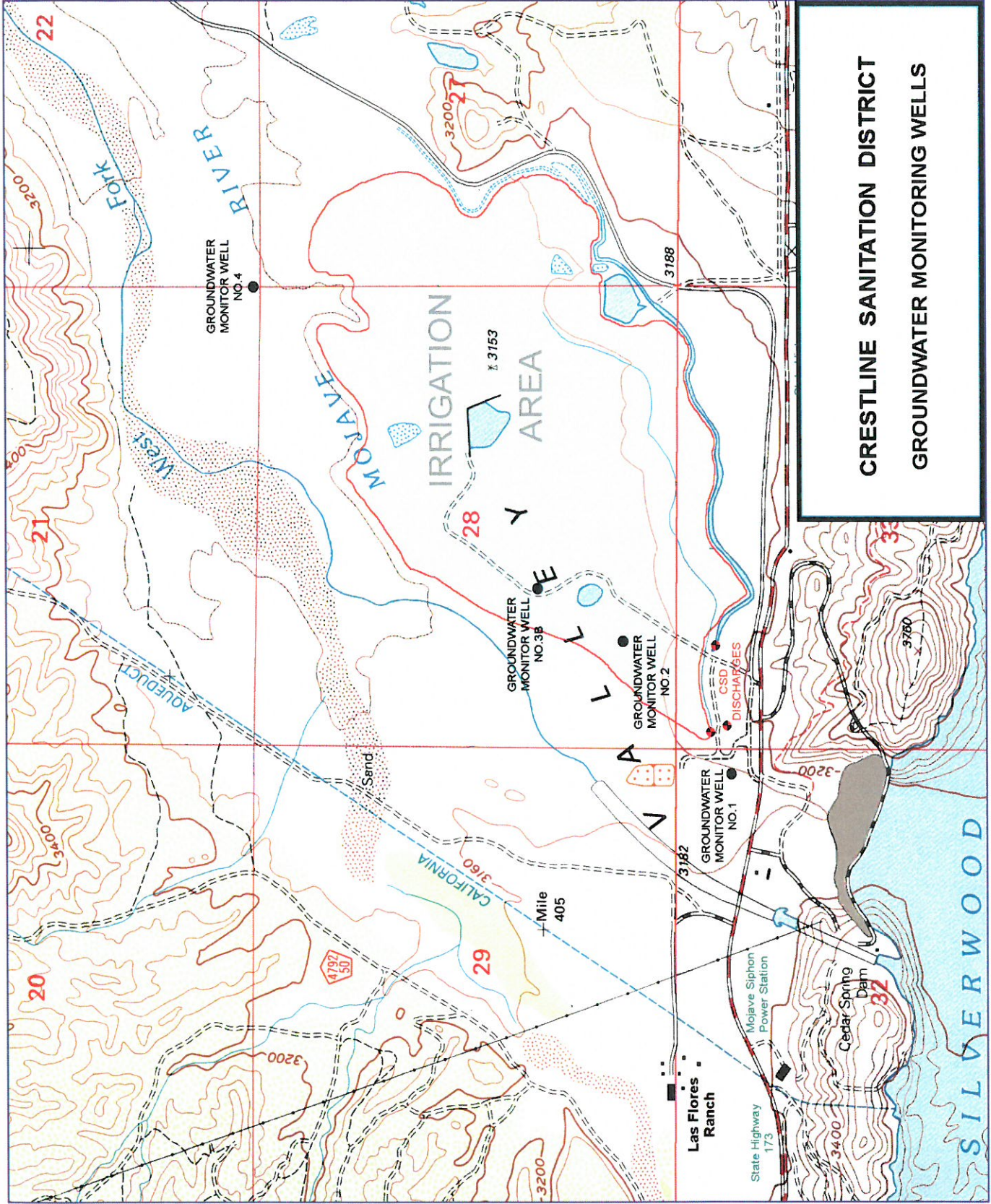
	Sludge Generated	Sludge Removed from Site	Sludge Disposal Method	Sludge Stockpiled on Site
Month				
January	70.2 tons	70.2 Tons	(a)	0.0 Tons
February	45.3 tons	45.3 Tons	(a)	0.0 Tons
March	52.5 tons	52.5 Tons	(a)	0.0 Tons
April	80.0 tons	80.0 Tons	(a)	0.0 Tons
May	61.3 tons	61.3 Tons	(a)	0.0 Tons
June	61.9 tons	61.9 Tons	(a)	0.0 Tons
July	77.1 tons	77.1 Tons	(a)	0.0 Tons
August	48.3 tons	48.3 Tons	(a)	0.0 Tons
September	44.8 tons	44.8 Tons	(a)	0.0 Tons
October	47.0 tons	47.0 Tons	(a)	0.0 Tons
November	42.2 tons	42.2 Tons	(a)	0.0 Tons
December	34.9 tons	34.9 Tons	(a)	0.0 Tons
TOTAL	665.5 tons	665.5 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 inputs 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 laboratory 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 - 2019





**CRESTLINE SANITATION DISTRICT
ANNUAL REPORT
Pasture Monitoring Well Number 1
Laboratory Monitoring Data**

Year: **2019**

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	129.0	78.0	ND	18.4	280	0.17	0.15	1.70	3154.9	1
APRIL										
MAY										
JUNE	141.0	100.0	ND	19.2	285	0.23	0.21	1.80	3148.4	1
JULY										
AUGUST										
SEPTEMBER	146.0	87.0	ND	18.6	285	0.16	0.15	1.70	3147.0	1
OCTOBER										
NOVEMBER										
DECEMBER	128.0	79.0	ND	18.6	270	0.24	0.22	1.80	3155.4	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: **2019**

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	162.0	98.0	ND	122.0	580	0.28	0.26	4.20	3158.6	2
APRIL										
MAY										
JUNE	120.0	88.0	ND	127.0	500	0.26	0.26	7.90	3150.4	2
JULY										
AUGUST										
SEPTEMBER	141.0	97.0	ND	141.0	550	0.23	0.22	7.30	3150.1	2
OCTOBER										
NOVEMBER										
DECEMBER	115.0	100.0	ND	121.0	460	0.34	0.30	6.80	3159.9	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: **2019**

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	123.0	80.0	ND	123.0	460	0.24	0.23	5.30	3152.5	3
APRIL										
MAY										
JUNE	124.0	82.0	ND	122.0	490	0.25	0.24	6.70	3146.4	3
JULY										
AUGUST										
SEPTEMBER	129.0	79.0	ND	125.0	535	0.22	0.20	6.60	3145.1	3
OCTOBER										
NOVEMBER										
DECEMBER	119.0	93.0	ND	120.0	470	0.31	0.28	6.30	3153.3	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: **2019**

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	150.0	54.0	ND	134.0	540	0.33	0.30	5.90	3116.9	4
APRIL										
MAY										
JUNE	162.0	55.0	ND	126.0	580	0.37	0.35	5.10	3109.6	4
JULY										
AUGUST										
SEPTEMBER	166.0	59.0	ND	127.0	590	0.35	0.30	5.40	3108.7	4
OCTOBER										
NOVEMBER										
DECEMBER	150.0	56.0	ND	122.0	550	0.34	0.30	4.80	3111.3	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
Laboratory Monitoring Data**

Annual Samples

2019

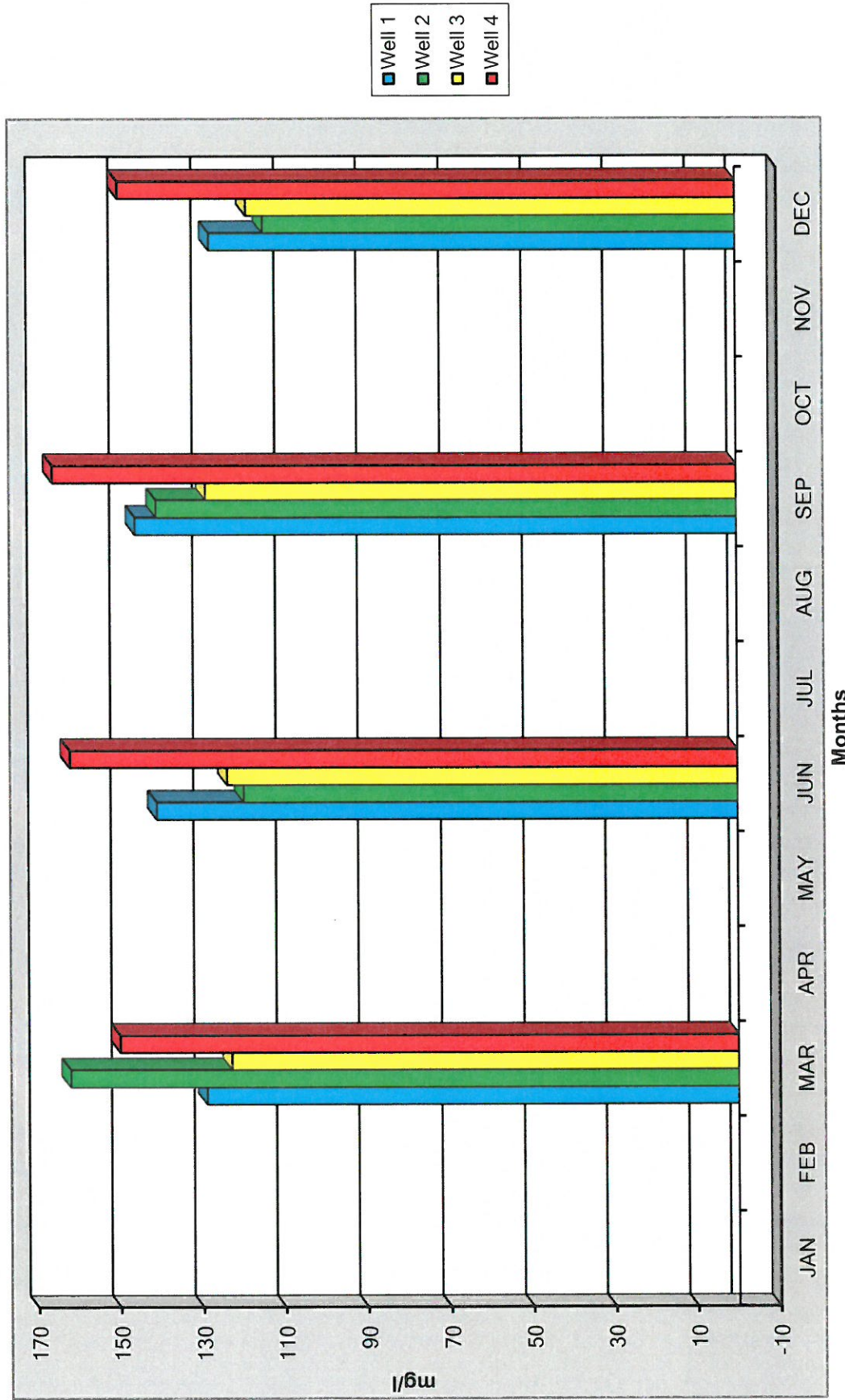
Frequency	Annual			
Sample Type	A	A	A	
Sample	Purgable Halocarbons *	Purgable Aromatics	Base/Neutral/Acid Extractable Organics	Well Number
Units	ug/l	ug/l	ug/l	
Month				
September	B	B	B	1
September	B	B	B	2
September	B	B	B	3
September	B	B	B	4

A - Monitoring Requirement

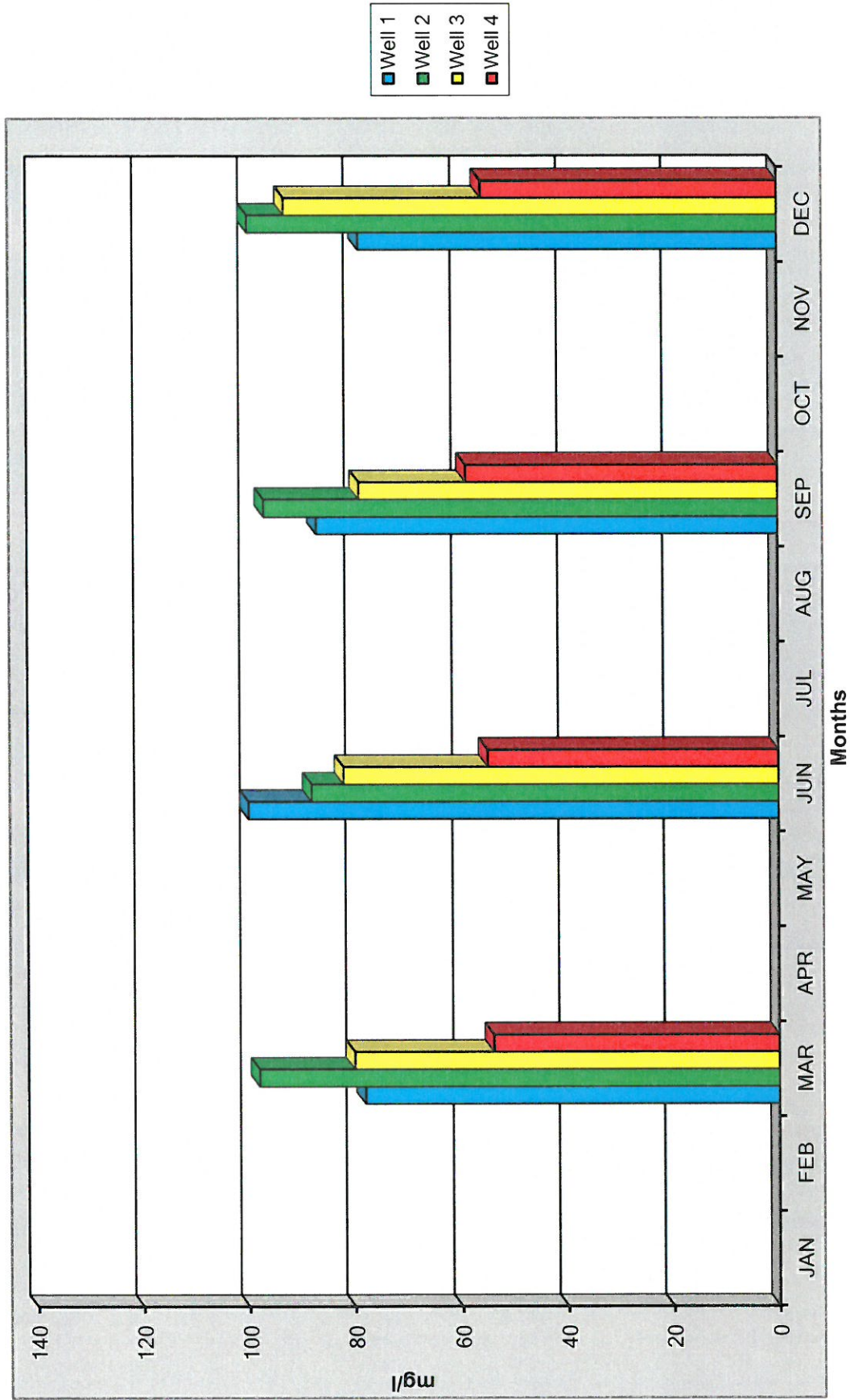
B - For Sample Results see Appendix "B"

* 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.

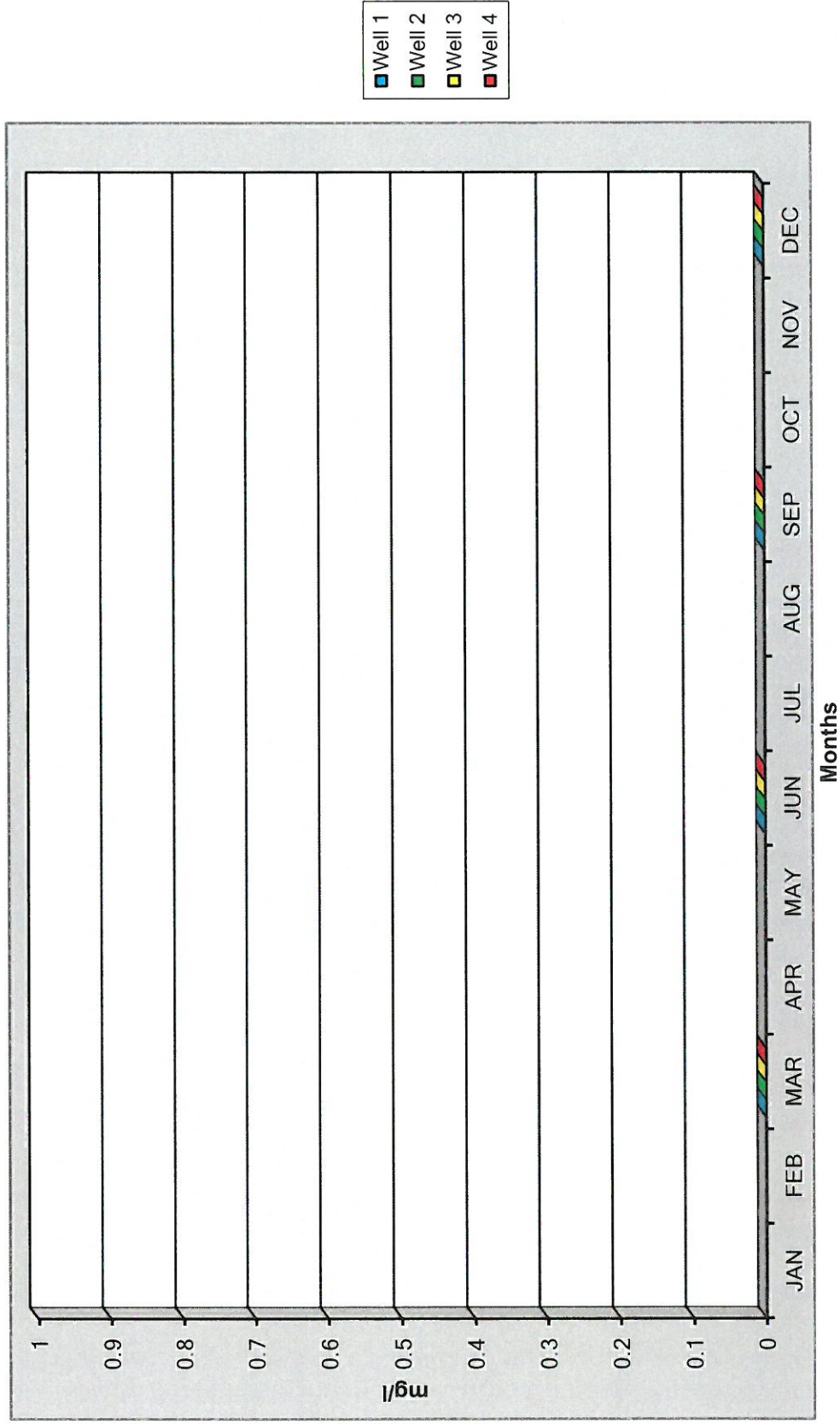
CRESTLINE SANITATION DISTRICT
 Pasture Monitoring Well Testing - Sulfate - 2019



CRESTLINE SANITATION DISTRICT
 Pasture Monitoring Well Testing - Sodium - 2019

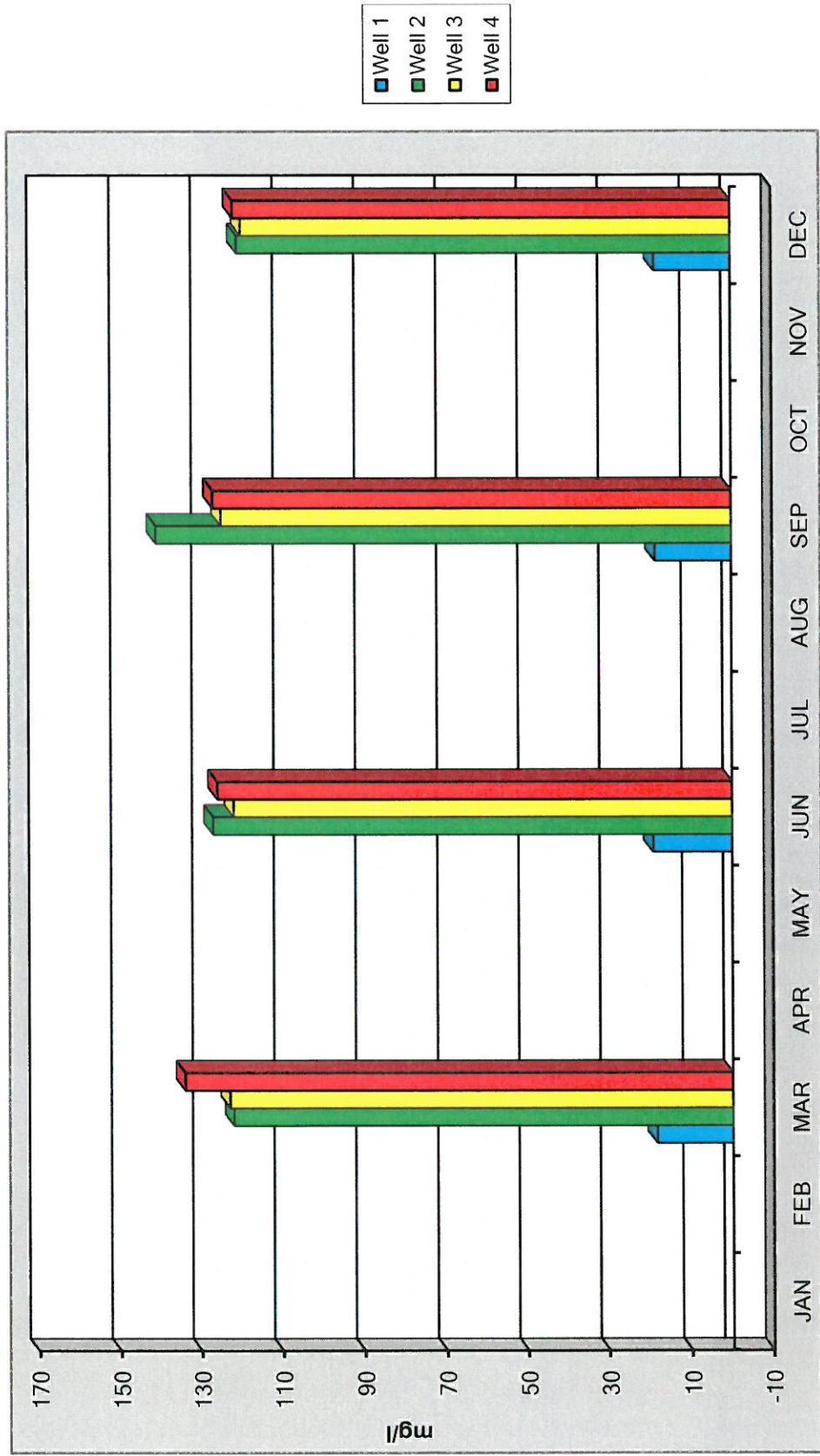


CRESTLINE SANITATION DISTRICT
Pasture Monitoring Well Testing - MBAS - 2019

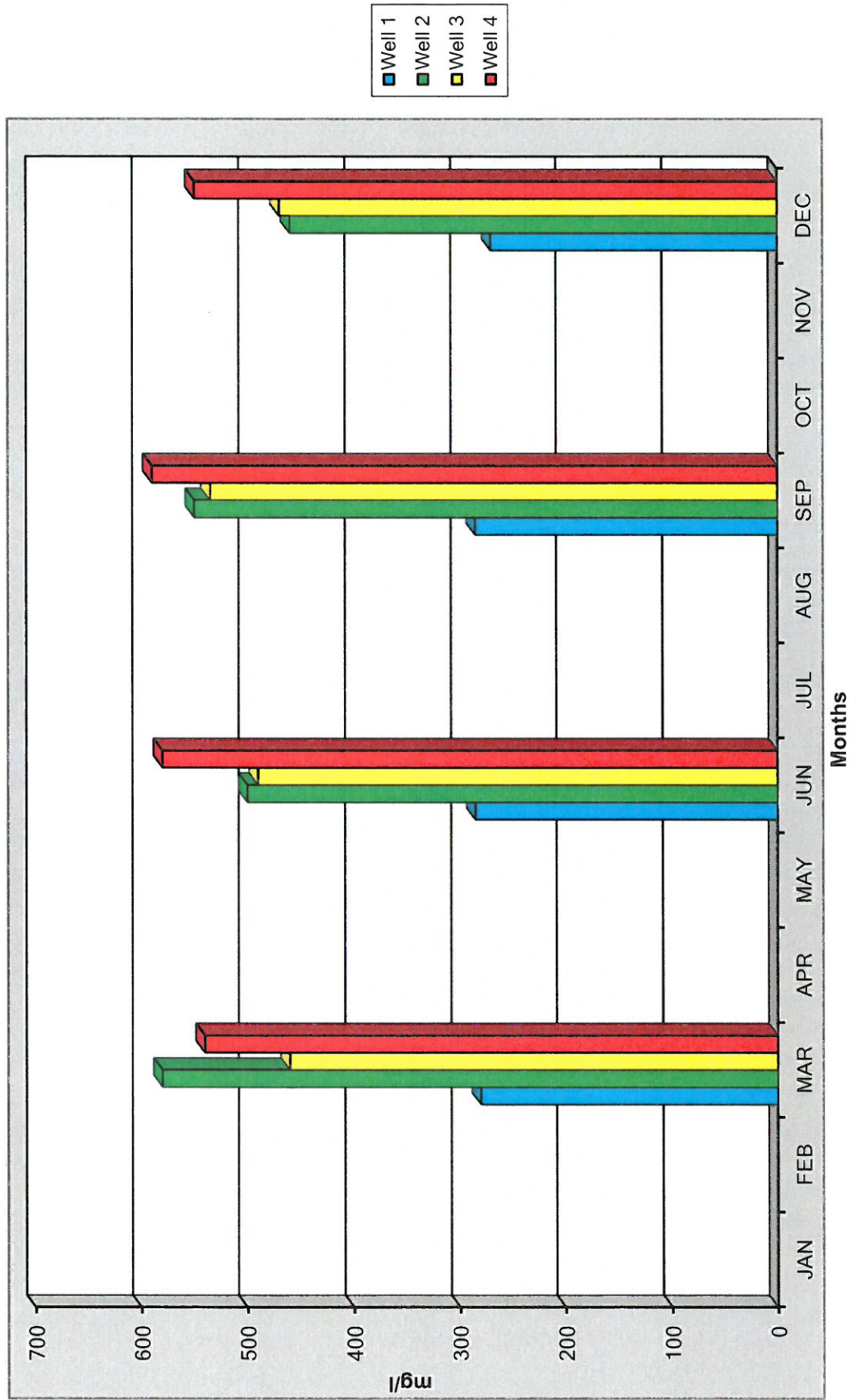


CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - Chloride - 2019

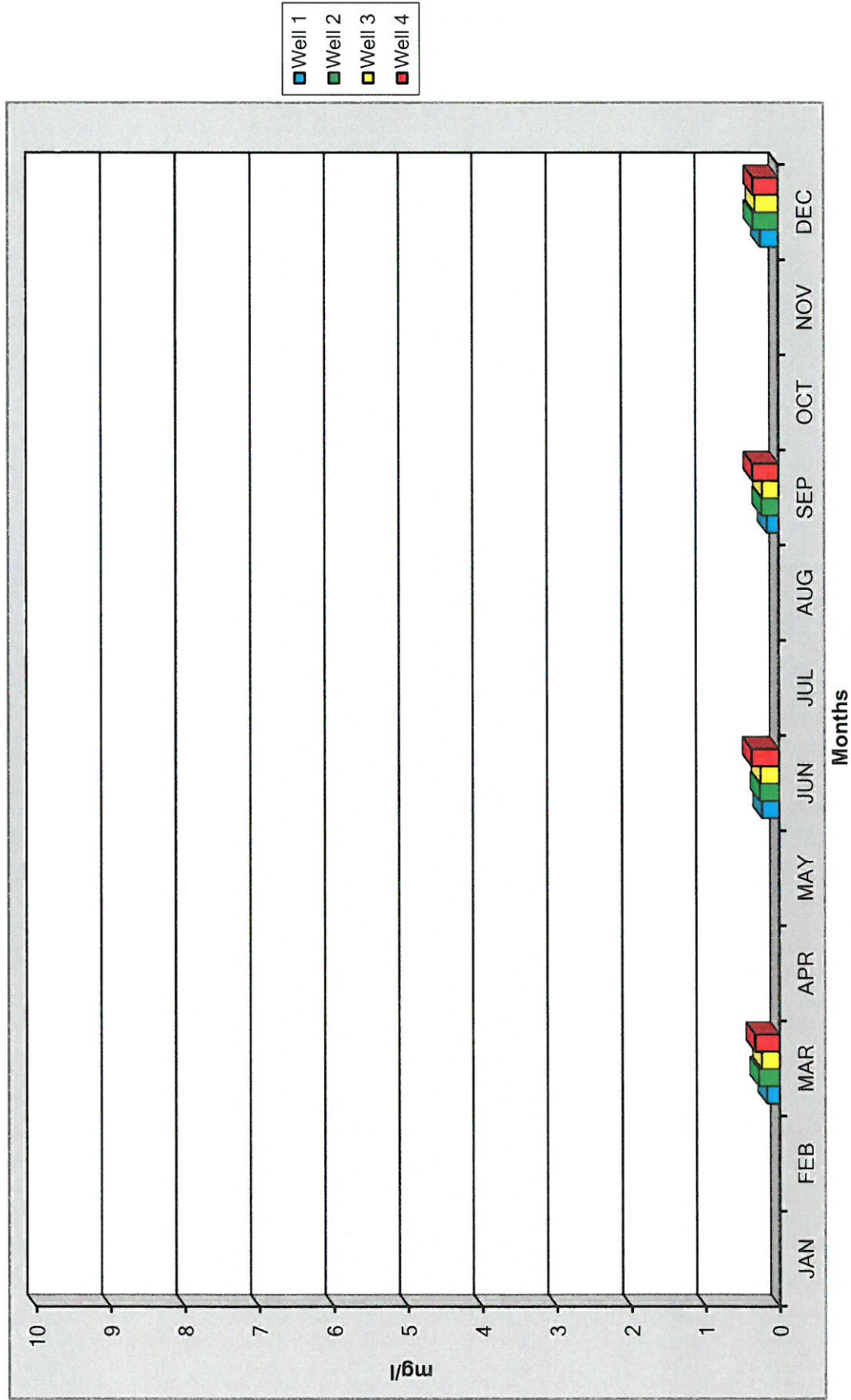


CRESTLINE SANITATION DISTRICT
 Pasture Monitoring Well Testing - TDS - 2019

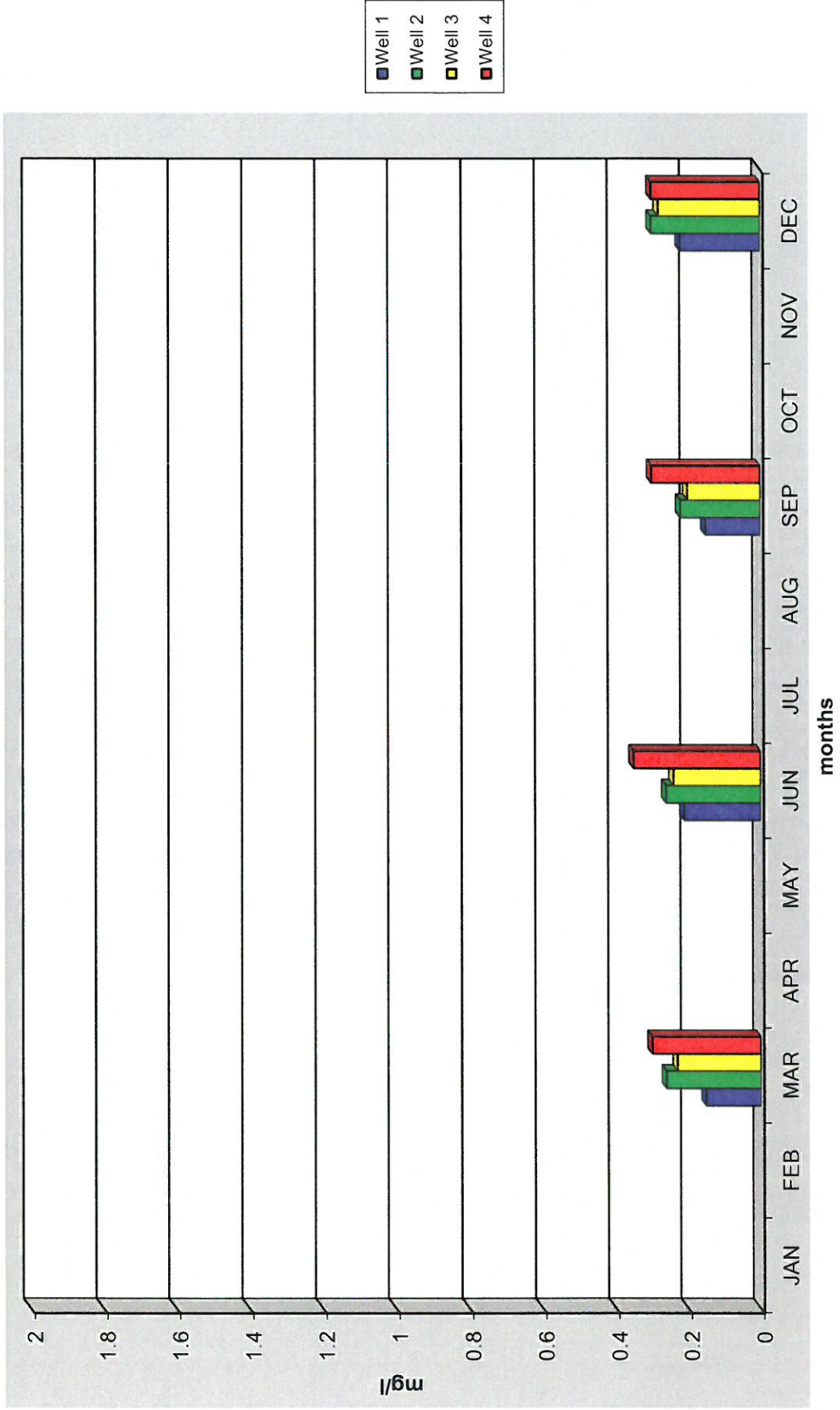


CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - TKN - 2019

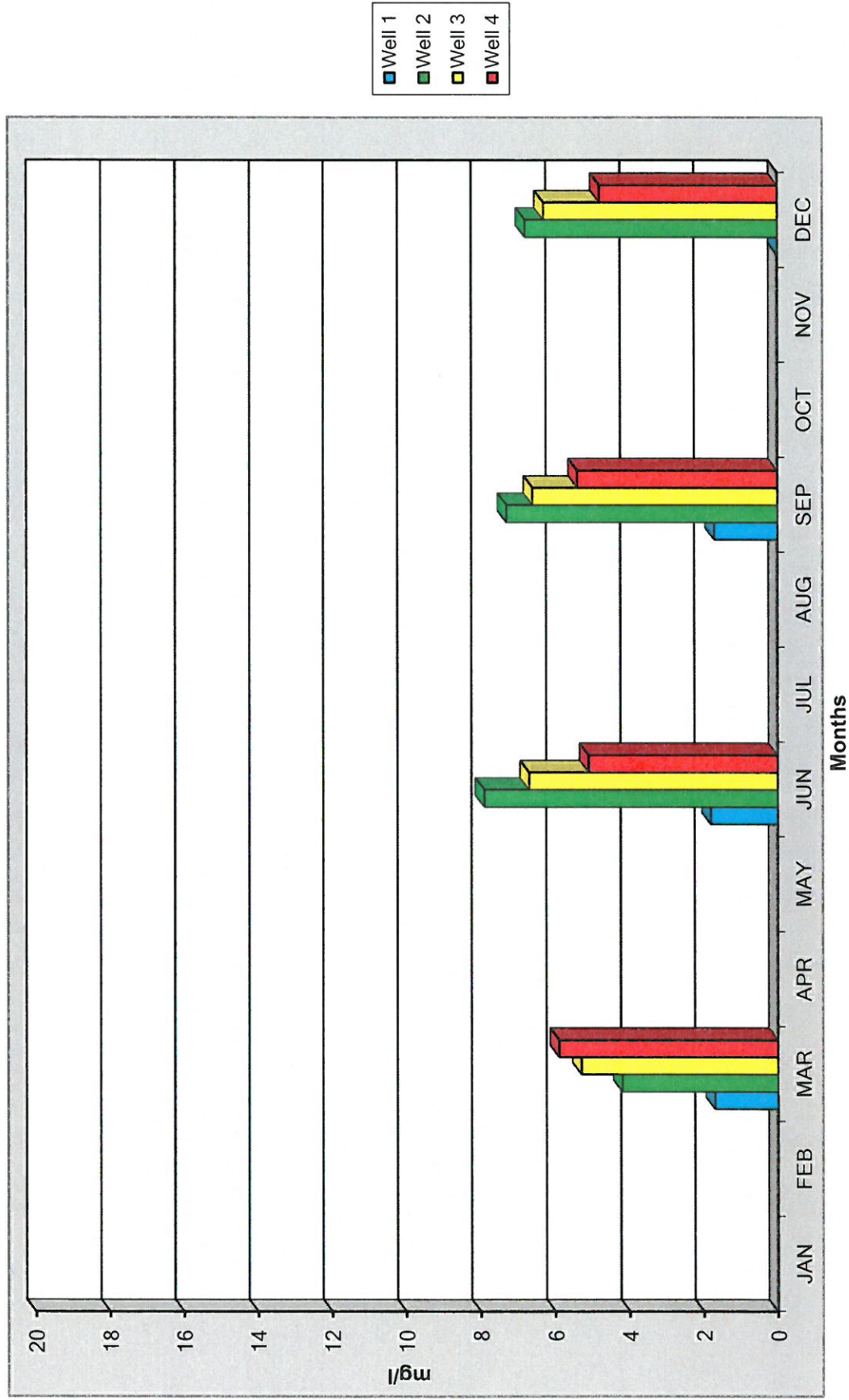


CRESTLINE SANITATION DISTRICT
Pasture Monitoring Well Testing - NH3-N - 2019



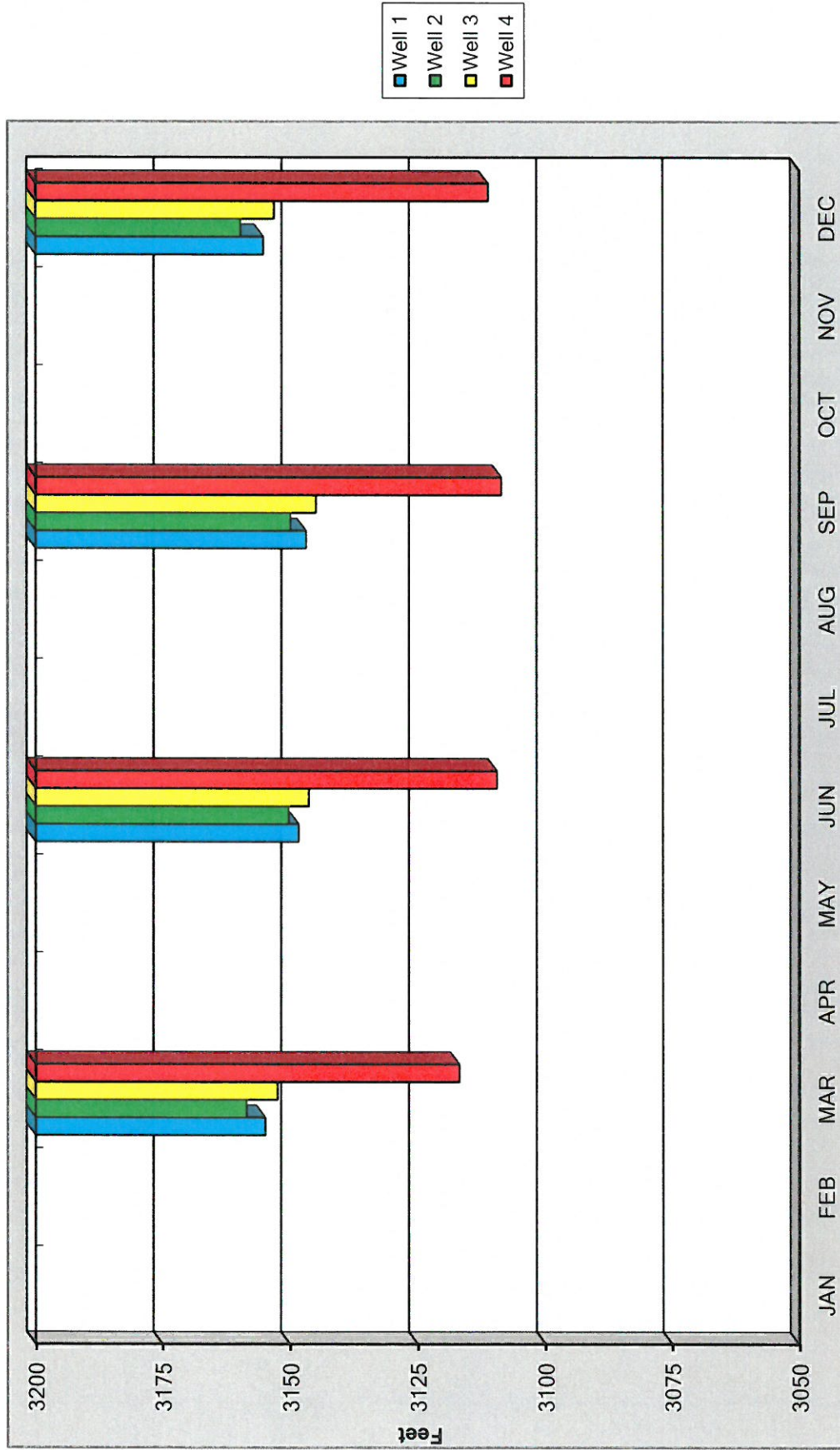
CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - NO3-N - 2019



CRESTLINE SANITATION DISTRICT

Pasture Monitoring Well Testing - Elevation of Water Depth - 2019



CRESTLINE SANITATION DISTRICT
Semi Annual Supply Water Monitoring Data

Year: **2019**

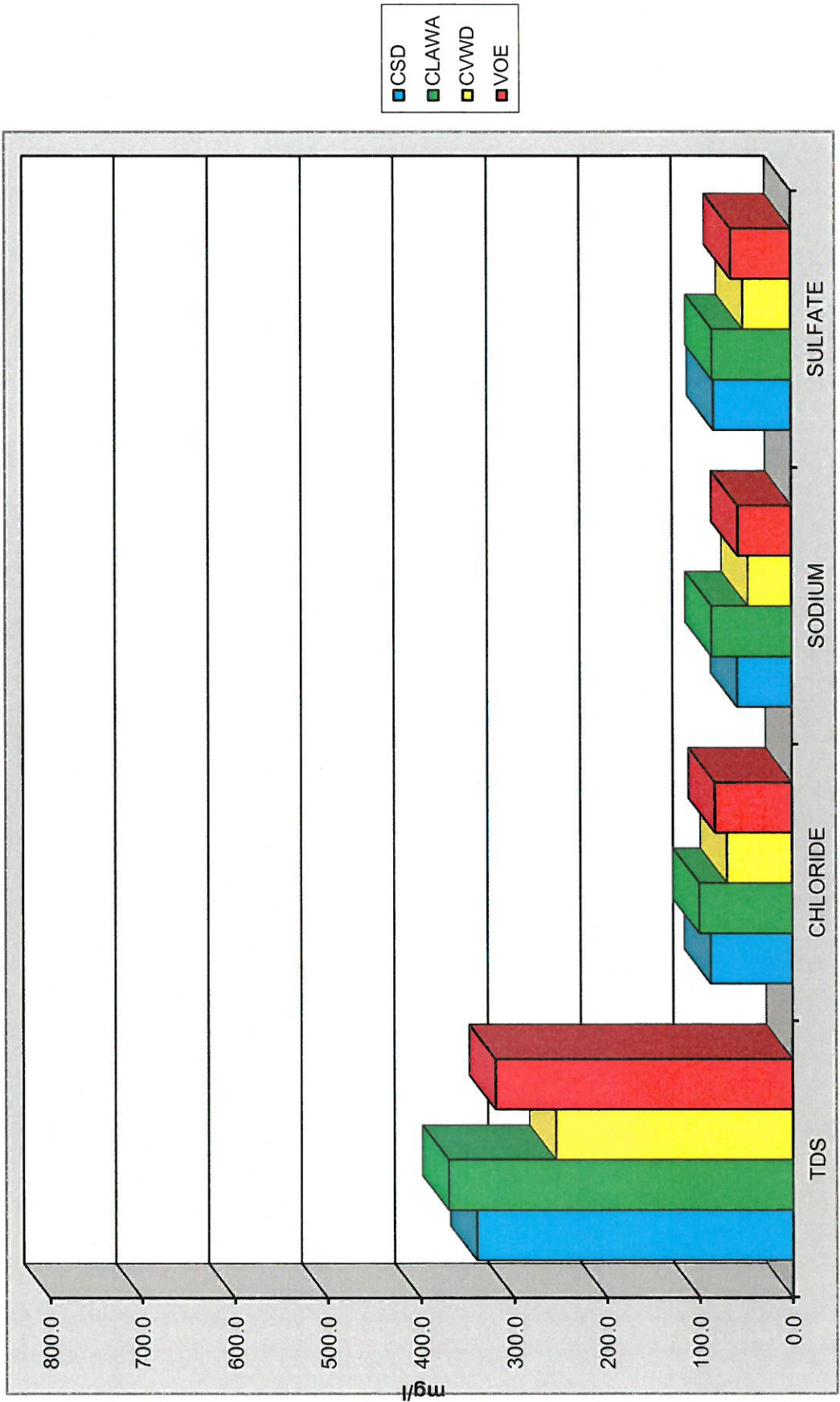
	Sample Dates	Frequency	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	Total Flow in MG	Local Water	Purchased Water
		Violations	Monitor	Monitor	Monitor					
		Sample Type	Monitor	Monitor	Monitor					
		Maximum								
		Mean/Minimum								
		Median								
			TDS	Chloride	Sodium	Sulfate				
Crestline Sanitation District (Final Effluent)	3/8/2019	MG/L	340.0	87.8	59.0	83.5	144.27			
		POUNDS	409,092	105,642	70,989	100,468				
Crestline Lake Arrowhead Water Agency (Silverwood)	3/8/2019	MG/L	370	100.0	86.0	85.0	6.42			
		POUNDS	19,811	5,354	4,605	4,551				
Crestline Village Water District	3/14/2019	MG/L	255	70.2	47.0	52.0	100.79	45.22	55.57	
		POUNDS	214,350	59,009	39,508	43,711				
Valley of Enchantment Mutual Water Company	3/6/2019	MG/L	320	83.0	58.0	65.0	26.10	6.47	19.64	
		POUNDS	69,656	18,067	12,625	14,149				
Calculated Constituent Concentrations		MG/L	273.3	74.1	51.0	56.1	133.3			
		POUNDS	303,817	82,431	56,737	62,411				

"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, 2018 thru March 31, 2019

CRESTLINE SANITATION DISTRICT
 Supply Water Testing - March, 2019



Sample Collected in March, 2019

CRESTLINE SANITATION DISTRICT
Semi Annual Supply Water Monitoring Data

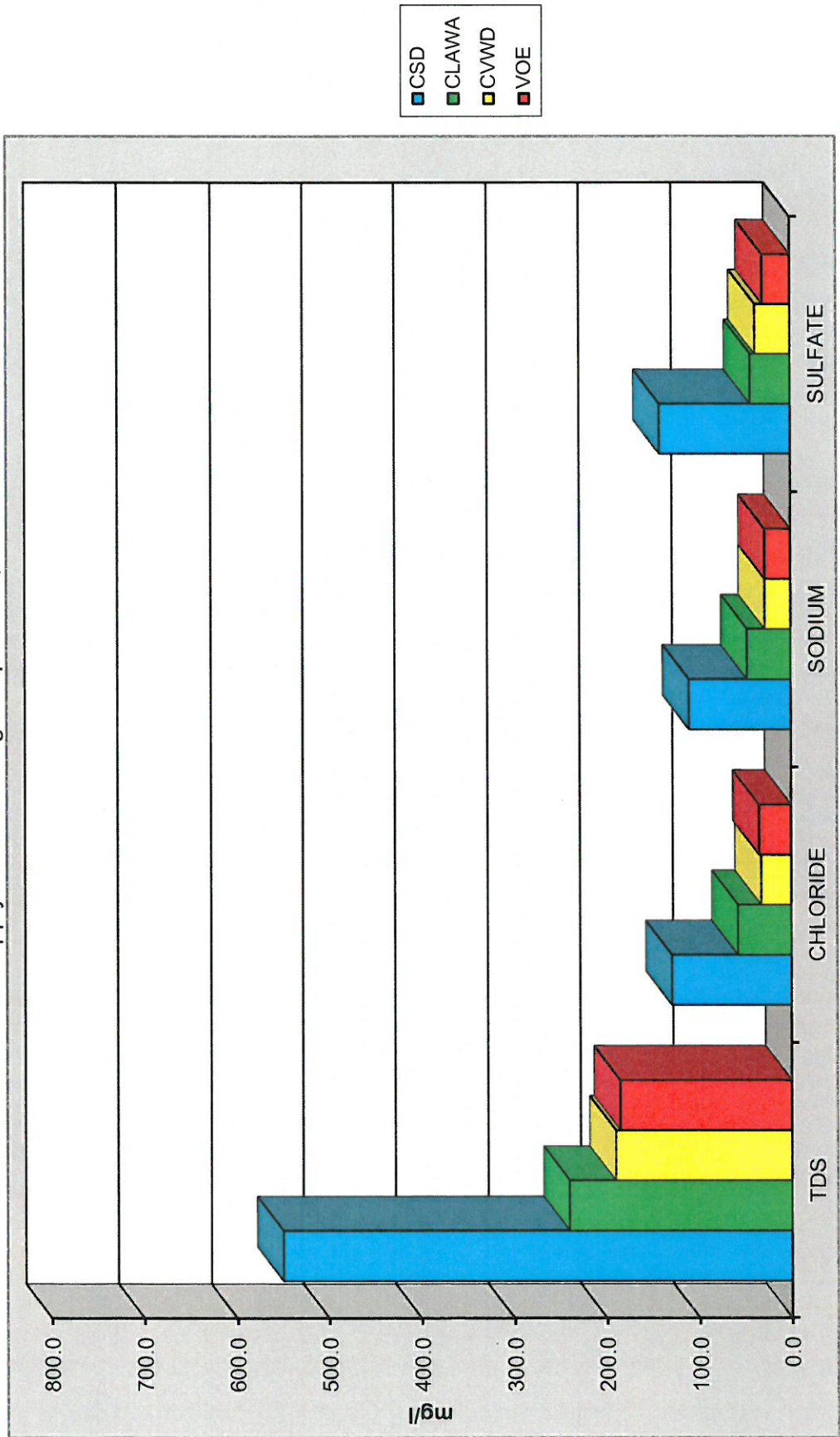
Year: **2019**

	Sample Dates	Frequency	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	Total Flow in MG	Local Water	Purchased Water
		Violations	Monitor	Monitor	Monitor	Monitor			
		Sample type	Monitor	Monitor	Monitor	Monitor			
		Maximum							
Crestline Sanitation District (Final Effluent)	09/12/19	MG/L	550.0	129.0	110.0	141.0	119.91		
		POUNDS	550,027	129,006	110,005	141,007			
Crestline Lake Arrowhead Water Agency (Silverwood)	09/18/19	MG/L	240.0	57.6	47.0	43.0	12.07		
		POUNDS	24,159	5,798	4,731	4,329			
Crestline Village Water District	09/18/19	MG/L	190.0	32.6	28.0	38.0	117.43	79.58	37.85
		POUNDS	186,080	31,927	27,422	37,216			
Valley of Enchantment Mutual Water Company	09/17/19	MG/L	185.0	34.8	28.0	30.0	25.59	13.61	11.98
		POUNDS	39,483	7,427	5,976	6,403			
Calculated Constituent Concentrations		MG/L	256.3	54.4	39.9	45.5	157.8		
		POUNDS	337,304	71,593	52,510	59,880			

"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, 2019 thru September 30, 2019

CRESTLINE SANITATION DISTRICT
 Supply Water Testing - September, 2019



Collected in September, 2019

CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

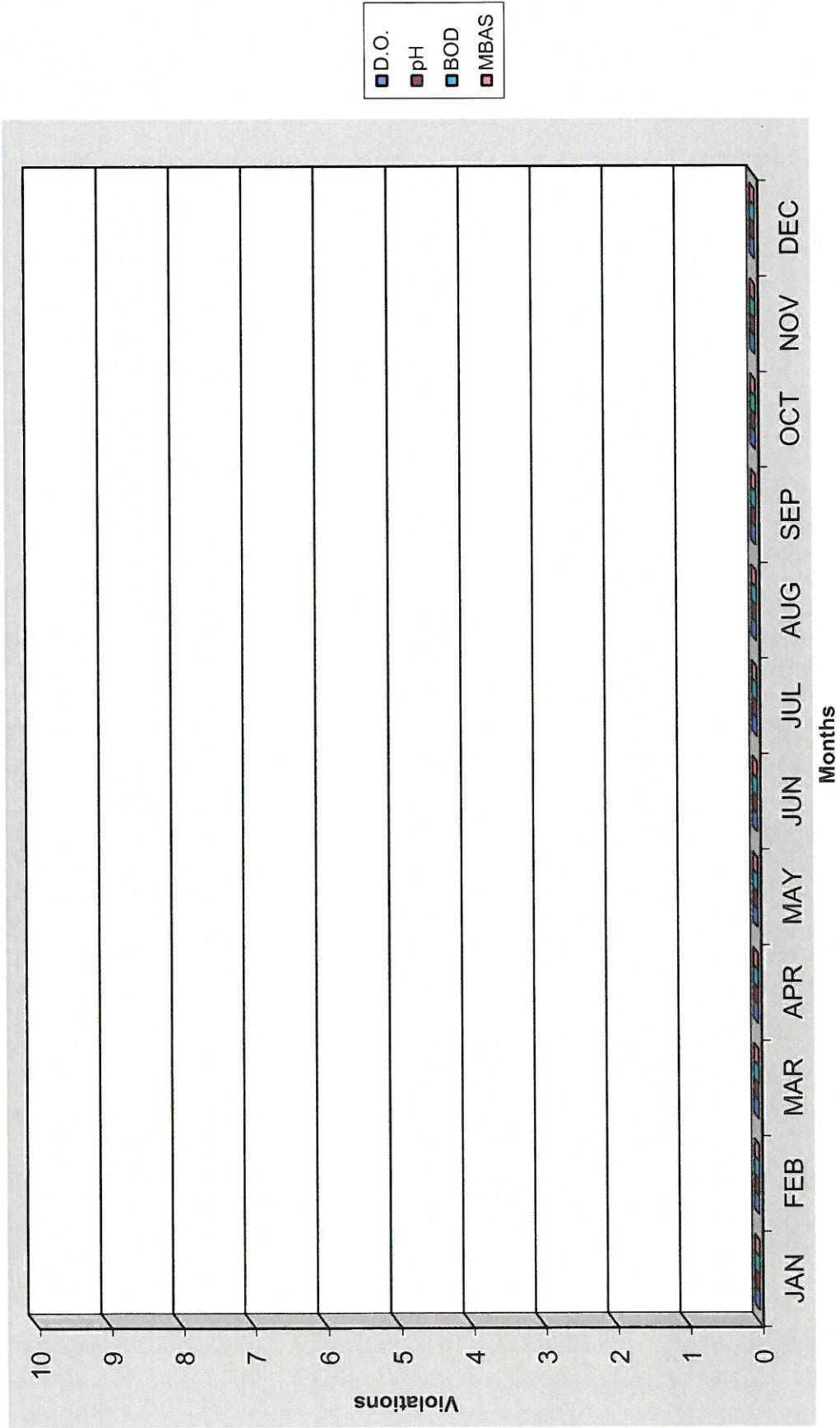
Final Effluent Disposal Site (Las Flores) Constituent Violations

Frequency	Year: 2019											
	2 week	weekly	weekly	2 month	2 month	2 month	2 month	2 month	2 month	2 month	monthly	monthly
Violations												
Sample Type	D/M	D/M	D/M	D/M	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		Settleable							Oil &			
Coliform		Solids	D.O.	pH	BOD	COD	MBAS	TKN	Grease	NO3-N	NH3-N	
MPN		ml/l	mg/l	pH	mg/l	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	0

D - Has Effluent / Discharge Limitations

M - Has Effluent Monitoring Requirements

CRESTLINE SANITATION DISTRICT
 Final Effluent Constituent Violations - 2019



CRESTLINE SANITATION DISTRICT

ANNUAL REPORT

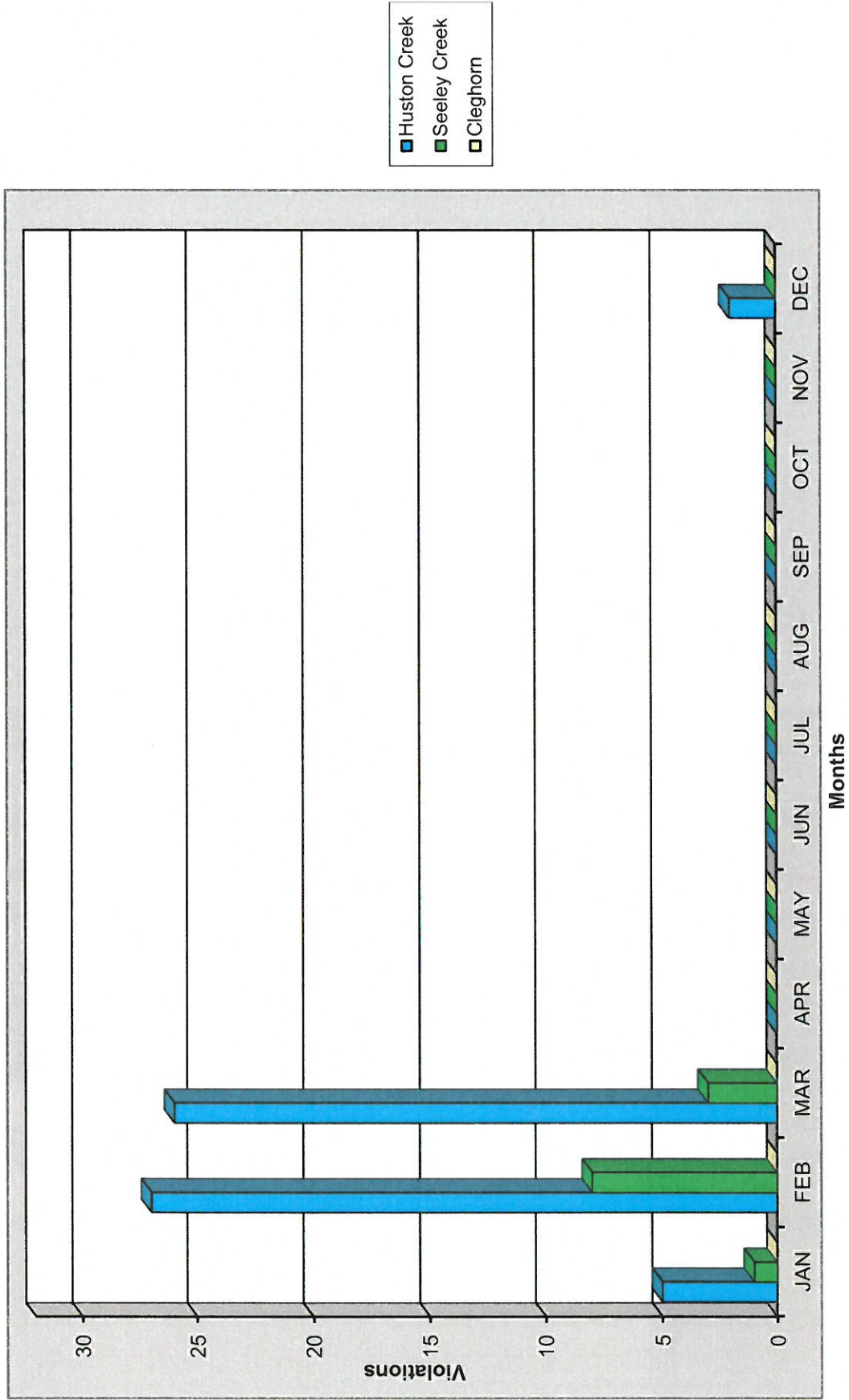
Treatment Facilities Flow Violations

Year: 2019

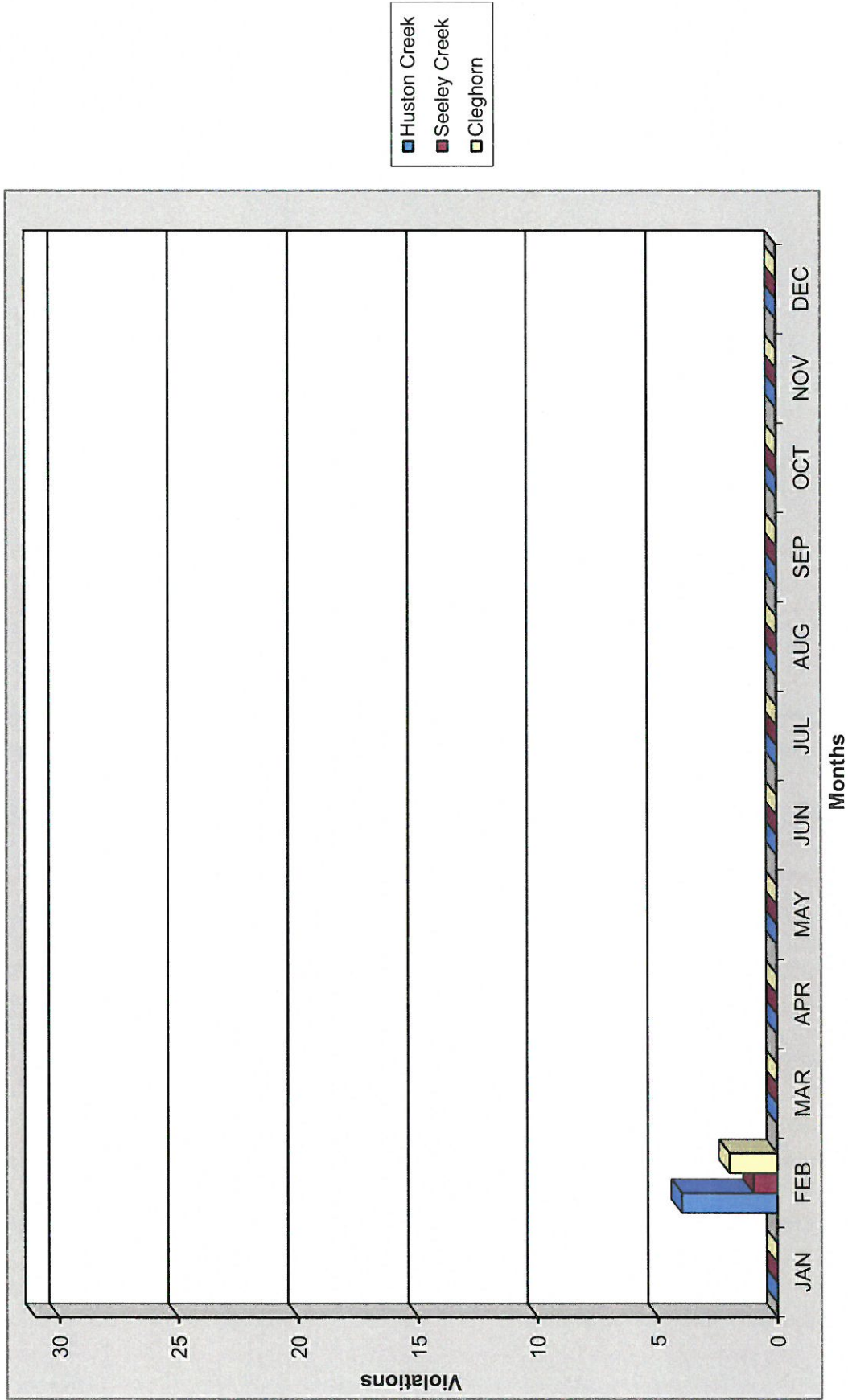
Facility name	Huston Plant		Seeley Plant		Cleghorn Plant	
Reading	daily	daily	daily	daily	daily	
Average	monthly		monthly		monthly	
Design limits	design 0.7 mg/d	maximum 2.50 mg	design 0.5 mg/d	maximum 1.00 mg	design 0.2 mg/d	maximum 0.4 mg
	design capacity	instantaneous peak	design capacity	instantaneous peak	design capacity	instantaneous peak
	Huston	HC peak	Seeley	SC peak	Cleghorn	CH peak
Months	violations	violations	violations	violations	violations	violations
January	5	-	1	-	-	-
February	27	4	8	1	-	2
March	26	-	3	-	-	-
April	-	-	-	-	-	-
May	-	-	-	-	-	-
June	-	-	-	-	-	-
July	-	-	-	-	-	-
August	-	-	-	-	-	-
September	-	-	-	-	-	-
October	-	-	-	-	-	-
November	-	-	-	-	-	-
December	2	-	-	-	-	-
Year Total	60	4	12	1	0	2

CRESTLINE SANITATION DISTRICT

Treatment Facility Design Capacity Flow Violations - 2019



CRESTLINE SANITATION DISTRICT
 Treatment Facility Instantaneous Flow Violations - 2019

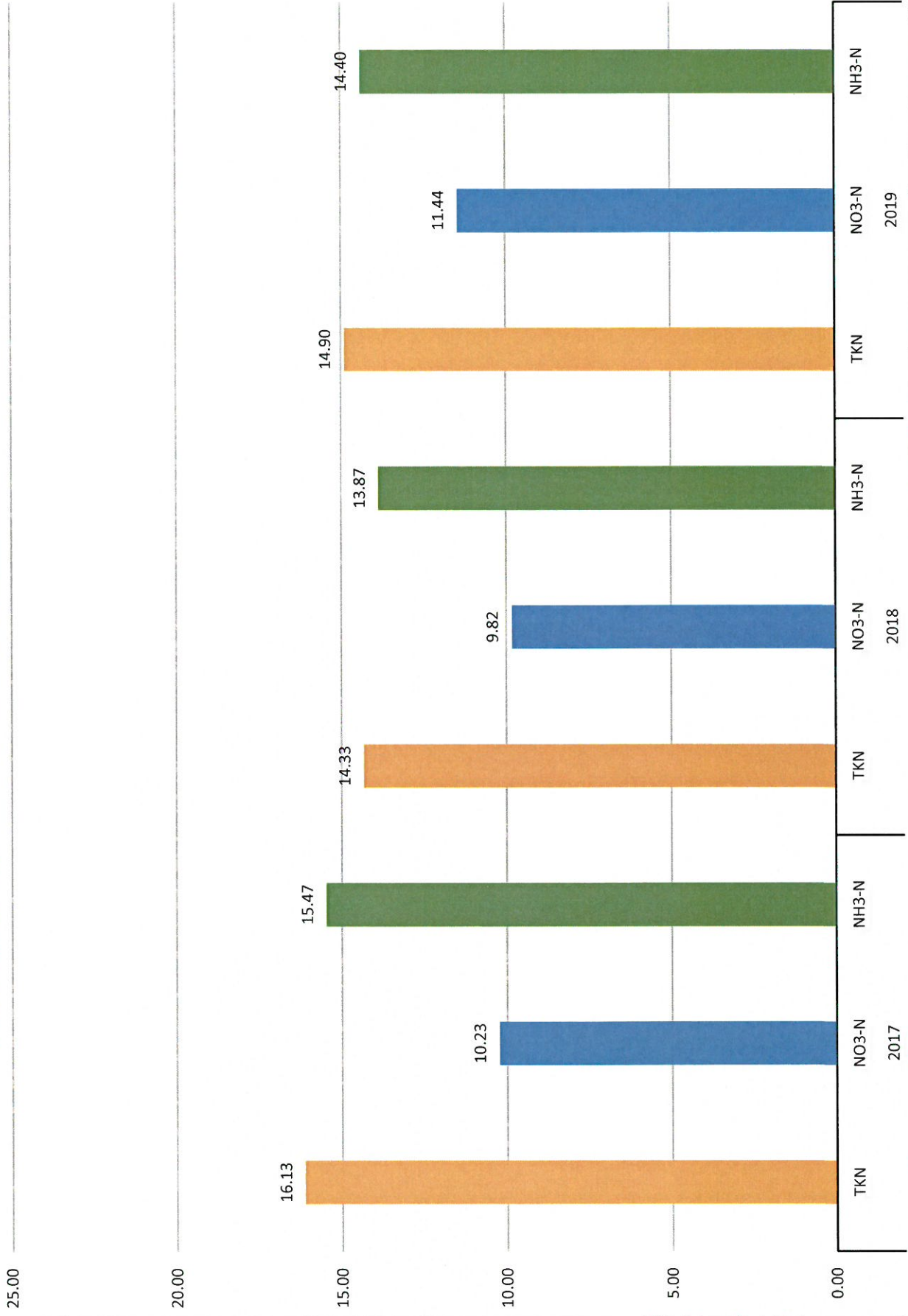


Crestline Sanitation District

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

Year	2017			2018			2019		
	TKN	NO3-N	NH3-N	TKN	NO3-N	NH3-N	TKN	NO3-N	NH3-N
Test									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Month									
JANUARY	16.30	11.20	16.00	15.00	7.90	14.30	15.00	9.40	14.30
FEBRUARY	12.70	8.00	12.50	13.70	9.90	13.30	15.00	10.40	14.30
MARCH	11.50	8.30	11.30	14.60	12.40	14.30	14.80	10.40	14.20
APRIL	14.50	10.80	13.80	17.70	7.40	17.30	12.20	10.60	12.00
MAY	27.80	8.50	26.70	12.00	9.80	11.80	16.00	12.70	15.30
JUNE	15.30	13.50	14.80	13.80	10.40	13.00	14.80	11.80	14.60
JULY	14.00	11.00	13.20	14.60	10.40	14.30	14.50	12.50	14.00
AUGUST	13.10	9.90	12.00	12.50	8.90	12.00	15.00	10.80	14.50
SEPTEMBER	24.80	8.50	23.80	14.90	8.70	14.60	15.00	11.90	14.30
OCTOBER	14.90	11.60	14.30	15.80	10.40	15.50	15.00	12.50	14.50
NOVEMBER	13.40	10.20	12.30	12.30	9.80	11.30	16.00	11.90	15.60
DECEMBER	15.20	11.20	14.90	15.00	11.80	14.70	15.50	12.40	15.20
AVERAGES	16.13	10.23	15.47	14.33	9.82	13.87	14.90	11.44	14.40

Las Flores 3 Year Comparison of TKN, NO3-N, NH3-N (Annual Averages)



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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Las Flores Outfall Annual
Project Manager: Rick Dever

Reported:
09/17/19 09:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L.F.A.S.9-5	1909085-01	Liquid	09/05/19 09:40	09/05/19 13:30

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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Las Flores Outfall Annual
Project Manager: Rick Dever

Reported:
09/17/19 09:24

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.S.9-5 (1909085-01) Liquid Sampled: 09/05/19 09:40 Received: 09/05/19 13:30									
Phenolics	ND	0.0500	mg/L	1	B9I0854	09/05/19	09/05/19 19:10	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.



Crestline Sanitation District P.O. Box 3395 Crestline CA, 92325-3395	Project: NA Project Number: Las Flores Outfall Annual Project Manager: Rick Dever	Reported: 09/17/19 09:24
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Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

L.F.A.S.9-5 (1909085-01) Liquid Sampled: 09/05/19 09:40 Received: 09/05/19 13:30

Silver	ND	0.010	mg/L	1	B9I0951	09/09/19	09/10/19 12:14	EPA 200.7	
Cadmium	ND	0.0060	"	"	"	"	"	"	
Chromium	ND	0.0090	"	"	"	"	"	"	
Copper	0.028	0.010	"	"	"	"	"	"	
Nickel	ND	0.0080	"	"	"	"	"	"	
Lead	ND	0.034	"	"	"	"	"	"	
Zinc	ND	0.15	"	"	"	"	"	"	

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 P.O. Box 3395 Crestline CA, 92325-3395	Project: NA Project Number: Las Flores Outfall Annual Project Manager: Rick Dever	Reported: 09/17/19 09:24
--	---	-----------------------------

Volatile Organics by EPA Method 624
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

L.F.A.S.9-5 (1909085-01) Liquid **Sampled: 09/05/19 09:40** **Received: 09/05/19 13:30**

Acrolein	ND	5.0	µg/L	1	B9I0601	09/06/19	09/09/19 09:09	EPA 624	
Acrylonitrile	ND	2.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	3.4	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	23	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	1.5	1.0	"	"	"	"	"	"	
Toluene	3.9	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	95.6 %	86-118	"	"	"	"	"
Surrogate: Toluene-d8	101 %	88-110	"	"	"	"	"

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Las Flores Outfall Annual
Project Manager: Rick Dever

Reported:
09/17/19 09:24

Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.S.9-5 (1909085-01) Liquid Sampled: 09/05/19 09:40 Received: 09/05/19 13:30									
Surrogate: 4-Bromofluorobenzene	92.6 %		86-115		B910601	09/06/19	09/09/19 09:09	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.

Sierra Analytical 26052 Merit Cir. Ste. 105 Laguna Hills CA, 92653	Project: 1909085 Project Number: 1909085 Project Manager: Rick Forsyth	Reported: 09/17/19 08:53
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L.F.A.S.9-5 (1909085-01)
T193146-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cyanide by SM4500-CN B,C, or E or EPA 9014

Cyanide (total)	0.006	0.005	mg/l	1	9091109	09/11/19	09/11/19	SM 4500-CN C/E	
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SunStar Laboratories, Inc.



Mike Jaroudi, Project Manager

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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Las Flores Outfall Annual
Project Manager: Rick Dever

Reported:
09/17/19 09:24

Semivolatle Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.S.9-5 (1909085-01) Liquid Sampled: 09/05/19 09:40 Received: 09/05/19 13:30									
Acenaphthene	ND	5.0	µg/L	1	B9I0946	09/06/19	09/09/19 14:11	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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Las Flores Outfall Annual
Project Manager: Rick Dever

Reported:
09/17/19 09:24

Semivolatile Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L.F.A.S.9-5 (1909085-01) Liquid Sampled: 09/05/19 09:40 Received: 09/05/19 13:30									
Indeno (1,2,3-cd) pyrene	ND	5.0	µg/L	1	B9I0946	09/06/19	09/09/19 14:11	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	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		80.7 %	25-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>		81.3 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		82.5 %	23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		81.7 %	30-115		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		80.0 %	19-122		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		68.2 %	18-137		"	"	"	"	

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Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: NA
 Project Number: Las Flores Outfall Annual
 Project Manager: Rick Dever

Reported:
 09/17/19 09:24

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.S.9-5 (1909085-01) Liquid Sampled: 09/05/19 09:40 Received: 09/05/19 13:30									
HC < C8	ND	0.010	mg/L	1	B9I1018	09/09/19	09/10/19 09:49	EPA 8015B	
C8 <= HC < C9	0.012	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	0.013	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	0.015	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
C12 <= HC < C14	0.022	0.010	"	"	"	"	"	"	"
C14 <= HC < C16	0.027	0.010	"	"	"	"	"	"	"
C16 <= HC < C18	0.027	0.010	"	"	"	"	"	"	"
C18 <= HC < C20	0.054	0.010	"	"	"	"	"	"	"
C20 <= HC < C24	0.046	0.010	"	"	"	"	"	"	"
C24 <= HC < C28	0.14	0.010	"	"	"	"	"	"	"
C28 <= HC < C32	0.070	0.010	"	"	"	"	"	"	"
HC >= C32	0.014	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	0.44	0.050	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		87.6 %	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 Biproducts
Trihalomethanes (EPA Method 524.2)
Haloacetic Acids (EPA Method 552.2)



Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: NA
 Project Number: Monitoring Wells Annual Samples
 Project Manager: Rick Dever

Reported:
 09/27/19 08:55

Volatile Organics by EPA Method 624
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-12 (1909200-01) Liquid Sampled: 09/12/19 09:30 Received: 09/12/19 13:00									
Acrolein	ND	5.0	µg/L	1	B9I2363	09/23/19	09/24/19 08:25	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		112 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		91.8 %	88-110		"	"	"	"	

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Volatile Organics by EPA Method 624
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-12 (1909200-01) Liquid Sampled: 09/12/19 09:30 Received: 09/12/19 13:00									
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %		86-115	B912363	09/23/19	09/24/19 08:25	EPA 624	
MW2-9-12 (1909200-02) Liquid Sampled: 09/12/19 09:45 Received: 09/12/19 13:00									
Acrolein	ND	5.0	µg/L	1	B912363	09/23/19	09/24/19 08:25	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	2.0	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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Volatile Organics by EPA Method 624
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2-9-12 (1909200-02) Liquid Sampled: 09/12/19 09:45 Received: 09/12/19 13:00									
Methyl tert-butyl ether	ND	1.0	µg/L	1	B9I2363	09/23/19	09/24/19 08:25	EPA 624	
Surrogate: Dibromofluoromethane		113 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		108 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	86-115		"	"	"	"	
MW3-9-12 (1909200-03) Liquid Sampled: 09/12/19 10:00 Received: 09/12/19 13:00									
Acrolein	ND	5.0	µg/L	1	B9I2363	09/23/19	09/24/19 08:25	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 P.O. Box 3395 Crestline CA, 92325-3395	Project: NA Project Number: Monitoring Wells Annual Samples Project Manager: Rick Dever	Reported: 09/27/19 08:55
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Volatile Organics by EPA Method 624
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW3-9-12 (1909200-03) Liquid Sampled: 09/12/19 10:00 Received: 09/12/19 13:00

Vinyl chloride	ND	1.0	µg/L	1	B912363	09/23/19	09/24/19 08:25	EPA 624	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		117 %	86-118		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	88-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	86-115		"	"	"	"	

MW4-9-12 (1909200-04) Liquid Sampled: 09/12/19 10:15 Received: 09/12/19 13:00

Acrolein	ND	5.0	µg/L	1	B912363	09/23/19	09/24/19 08:25	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 P.O. Box 3395 Crestline CA, 92325-3395	Project: NA Project Number: Monitoring Wells Annual Samples Project Manager: Rick Dever	Reported: 09/27/19 08:55
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Volatile Organics by EPA Method 624

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-12 (1909200-04) Liquid Sampled: 09/12/19 10:15 Received: 09/12/19 13:00									
1,1,2-Trichloroethane	ND	1.0	µg/L	1	B912363	09/23/19	09/24/19 08:25	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	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %		86-118	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %		88-110	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.4 %		86-115	"	"	"	"	

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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Semivolatile Organics by EPA Method 625
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-12 (1909200-01) Liquid Sampled: 09/12/19 09:30 Received: 09/12/19 13:00									
Acenaphthene	ND	5.0	µg/L	1	B9I2364	09/19/19	09/23/19 12:11	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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Semivolatile Organics by EPA Method 625
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
MW1-9-12 (1909200-01) Liquid Sampled: 09/12/19 09:30 Received: 09/12/19 13:00									
Indeno (1,2,3-cd) pyrene	ND	5.0	µg/L	1	B9I2364	09/19/19	09/23/19 12:11	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	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		92.7 %	25-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>		84.7 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		90.0 %	23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		93.2 %	30-115		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		96.0 %	19-122		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		123 %	18-137		"	"	"	"	
MW2-9-12 (1909200-02) Liquid Sampled: 09/12/19 09:45 Received: 09/12/19 13:00									
Acenaphthene	ND	5.0	µg/L	1	B9I2364	09/19/19	09/23/19 12:11	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	"	"	"	"	"	"	

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Crestline Sanitation District
 P.O. Box 3395
 Crestline CA, 92325-3395

Project: NA
 Project Number: Monitoring Wells Annual Samples
 Project Manager: Rick Dever

Reported:
 09/27/19 08:55

Semivolatile Organics by EPA Method 625
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
MW2-9-12 (1909200-02) Liquid Sampled: 09/12/19 09:45 Received: 09/12/19 13:00									
2-Chloronaphthalene	ND	5.0	µg/L	1	B9I2364	09/19/19	09/23/19 12:11	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	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		103 %		25-121	"	"	"	"	

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Semivolatle Organics by EPA Method 625
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW2-9-12 (1909200-02) Liquid Sampled: 09/12/19 09:45 Received: 09/12/19 13:00

Surrogate: Phenol-d6		98.0 %		24-113	B912364	09/19/19	09/23/19 12:11	EPA 625	
Surrogate: Nitrobenzene-d5		94.9 %		23-120	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		98.2 %		30-115	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		100 %		19-122	"	"	"	"	
Surrogate: Terphenyl-d14		90.4 %		18-137	"	"	"	"	

MW3-9-12 (1909200-03) Liquid Sampled: 09/12/19 10:00 Received: 09/12/19 13:00

Acenaphthene	ND	5.0	µg/L	1	B912364	09/19/19	09/23/19 12:11	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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Semivolatiles by EPA Method 625
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3-9-12 (1909200-03) Liquid Sampled: 09/12/19 10:00 Received: 09/12/19 13:00									
1,2-Diphenylhydrazine	ND	5.0	µg/L	1	B9I2364	09/19/19	09/23/19 12:11	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		114 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		105 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		110 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		110 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		119 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		95.5 %	18-137		"	"	"	"	

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Semivolatile Organics by EPA Method 625
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-12 (1909200-04) Liquid Sampled: 09/12/19 10:15 Received: 09/12/19 13:00									
Acenaphthene	ND	5.0	µg/L	1	B9I2364	09/19/19	09/23/19 12:11	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
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Semivolatle Organics by EPA Method 625

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-12 (1909200-04) Liquid Sampled: 09/12/19 10:15 Received: 09/12/19 13:00									
Indeno (1,2,3-cd) pyrene	ND	5.0	µg/L	1	B9I2364	09/19/19	09/23/19 12:11	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	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		106 %	25-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>		101 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		105 %	23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		107 %	30-115		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		112 %	19-122		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		83.8 %	18-137		"	"	"	"	

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Crestline Sanitation District P.O. Box 3395 Crestline CA, 92325-3395	Project: NA Project Number: Monitoring Wells Annual Samples Project Manager: Rick Dever	Reported: 09/27/19 08:55
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Trihalomethanes by EPA Method 524.2
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW1-9-12 (1909200-01) Liquid Sampled: 09/12/19 09:30 Received: 09/12/19 13:00

Bromodichloromethane	ND	0.500	µg/L	1	B912362	09/23/19	09/23/19 11:08	EPA 524.2	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		110 %	86-118	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.0 %	88-110	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	86-115	"	"	"	"	"	

MW2-9-12 (1909200-02) Liquid Sampled: 09/12/19 09:45 Received: 09/12/19 13:00

Bromodichloromethane	ND	0.500	µg/L	1	B912362	09/23/19	09/23/19 11:08	EPA 524.2	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	1.89	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	1.89	0.500	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		113 %	86-118	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95.4 %	88-110	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	86-115	"	"	"	"	"	

MW3-9-12 (1909200-03) Liquid Sampled: 09/12/19 10:00 Received: 09/12/19 13:00

Bromodichloromethane	ND	0.500	µg/L	1	B912362	09/23/19	09/23/19 11:08	EPA 524.2	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	0.770	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	0.770	0.500	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		110 %	86-118	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.2 %	88-110	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.6 %	86-115	"	"	"	"	"	

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Crestline Sanitation District P.O. Box 3395 Crestline CA, 92325-3395	Project: NA Project Number: Monitoring Wells Annual Samples Project Manager: Rick Dever	Reported: 09/27/19 08:55
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Trihalomethanes by EPA Method 524.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-12 (1909200-04) Liquid Sampled: 09/12/19 10:15 Received: 09/12/19 13:00									
Bromodichloromethane	ND	0.500	µg/L	1	B912362	09/23/19	09/23/19 11:08	EPA 524.2	
Bromoform	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
Total Trihalomethanes	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		116 %	86-118		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.4 %	88-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	86-115		"	"	"	"	

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Haloacetic Acids (GC/ECD) by EPA Method 552.2
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-9-12 (1909200-01) Liquid Sampled: 09/12/19 09:30 Received: 09/12/19 13:00									
Monochloroacetic Acid	ND	2.00	µg/L	1	B912418	09/24/19	09/25/19 14:51	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	"	"	"	"	"	"	
<i>Surrogate: 2,3-Dibromopropionic Acid</i>		116 %	60-150		"	"	"	"	
MW2-9-12 (1909200-02) Liquid Sampled: 09/12/19 09:45 Received: 09/12/19 13:00									
Monochloroacetic Acid	ND	2.00	µg/L	1	B912418	09/24/19	09/25/19 14:51	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	"	"	"	"	"	"	
<i>Surrogate: 2,3-Dibromopropionic Acid</i>		127 %	60-150		"	"	"	"	
MW3-9-12 (1909200-03) Liquid Sampled: 09/12/19 10:00 Received: 09/12/19 13:00									
Monochloroacetic Acid	ND	2.00	µg/L	1	B912418	09/24/19	09/25/19 14:51	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	"	"	"	"	"	"	
<i>Surrogate: 2,3-Dibromopropionic Acid</i>		147 %	60-150		"	"	"	"	

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Crestline Sanitation District
P.O. Box 3395
Crestline CA, 92325-3395

Project: NA
Project Number: Monitoring Wells Annual Samples
Project Manager: Rick Dever

Reported:
09/27/19 08:55

Haloacetic Acids (GC/ECD) by EPA Method 552.2

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-9-12 (1909200-04) Liquid Sampled: 09/12/19 10:15 Received: 09/12/19 13:00									
Monochloroacetic Acid	ND	2.00	µg/L	1	B9I2418	09/24/19	09/25/19 14:51	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	"	"	"	"	"	"	
<i>Surrogate: 2,3-Dibromopropionic Acid</i>		116 %	60-150		"	"	"	"	

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