SUMMERLAND
Sanitary District

ANNUAL REPORT
2019

NPDES NO. CA0048054
ORDER NO. R3-2013-0042

January 24, 2020

SUBJECT: NPDES Permit No. CA0048054
ORDER No. R3-2013-0042
Annual Report-2019

In accordance with the requirements of the general provisions of the Summerland Sanitary District's NPDES Permit No. CA0048054, we are transmitting the District's Annual Report for 2019. The monitoring data is compiled throughout the year and is presented in both tabular and graphic form.

As required, the following is a list of certified operators currently employed by the District:

- Michael J. Sullivan, Treatment Plant Operations Supervisor/General Manager, Grade III-9077, expiration date 12/31/2020
- Servando A. Aguilar, Sr. Operator I, Grade I-9369, expiration date 12/31/2020
- Noe Aguilar Vega, Operator II, Grade III- 42178, expiration date 11/20/2020. Mr. Vega has completed Collections System Maintenance Grade l #1308216043 CWEA. Expiration date 09-30-2020.
- Eduardo Nava, Operator I, Grade II- 42423 expiration date 05/09/2020. Mr. Nava has completed Collections System Maintenance Grade l #1308216042 CWEA. Expiration date 09-30-2020.

During 2019, all parameters of the effluent quality were within the limits set by the District's discharge permit. The monthly grease and oil, ammonia (nitrogen), total and fecal coliform, BOD, total suspended solids and turbidity were analyzed by Fruit Growers Laboratory (FGL) of Santa Paula, California. FGL also completed the analysis for the annual effluent, ocean and sludge sampling. Aquatic Bioassay & Consulting Laboratories, Inc (ABC Labs) in Ventura, California, performed the chronic toxicity testing.

For 2019, a total of 49.71 tons of biosolids were hauled to San Joaquin Composting facility in Kern County by Liberty Compost.

On August 12, 2019, Salty Dog Dive Service of Santa Barbara California completed the inspection of the District's ocean outfall pipeline. The entire outfall inspection report is attached as a separate document and is uploaded under the CIWQS reporting system ID 2083404.

Collection System Maintenance and Renovation Program

Objective:

To reduce sanitary overflows, increase system reliability, optimize service life of collection system components, plan for facility replacement and educate public on importance of maintaining private laterals.

Goals- Short Term:

- Continue systematic cleaning and closed-circuit televising of collection system to identify problem areas and effectiveness of cleaning efforts. Repair problem areas if found.
- As needed, locate, raise, and repair District manholes and cleanouts.
- Monthly updating of GIS system to reflect maintenance work as well as property owner information.
- Monthly updating of District Atlas with any changes that may be needed (new service connections, new manholes, collection system repairs etc.).
- As collection system is televised, update property connection data for future reference. This entails getting footage from nearest manhole to property lateral connection into District main sewer line. Other property information will be entered if pertinent to sewer service.

Goals- Long Term:

- Repair collection system mainlines if problems found by means of point repair or slip-lining of collection mainline.
- To have the collection system in a state of operation where only minor repairs are needed.
- To continue to bring property owners sewer service who are currently on septic systems for their sanitary needs.
- Continue to stay abreast of future reclamation needs in conjunction with local water district.
- Continue educating the public on wastewater issues with Summerland Sanitary District newsletters.

Actions completed in 2019:

- In 2019, approx. 37,245 feet of collection mainline was cleaned by District staff using trailer jetter. Approx. 1,700 feet of mainline was televised by District staff with closed circuit televising equipment.
- Maintenance on motor control center (MCC).
- Annual and routine maintenance of three lift stations and four on-site generators.

- On April 26, 2019 Salty Dog Diving Services cleared both east and west ocean outfall pipeline diffusers.
- On December 12, 2019 Salty Dog Diving Services replaced the ground tackle for the outfall marker buoy, 30 feet of chain, and the swivel and shackles from the clump weight that holds the buoy in place.

2019 Reported Overflows:

- No overflow spills to report for calendar year 2019.

Please feel free to contact me if you have any questions or need additional information.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." [40 CFR §122.22(d)].

Sincerely,

Michael J. Sullivan
General Manager
Summerland Sanitary District

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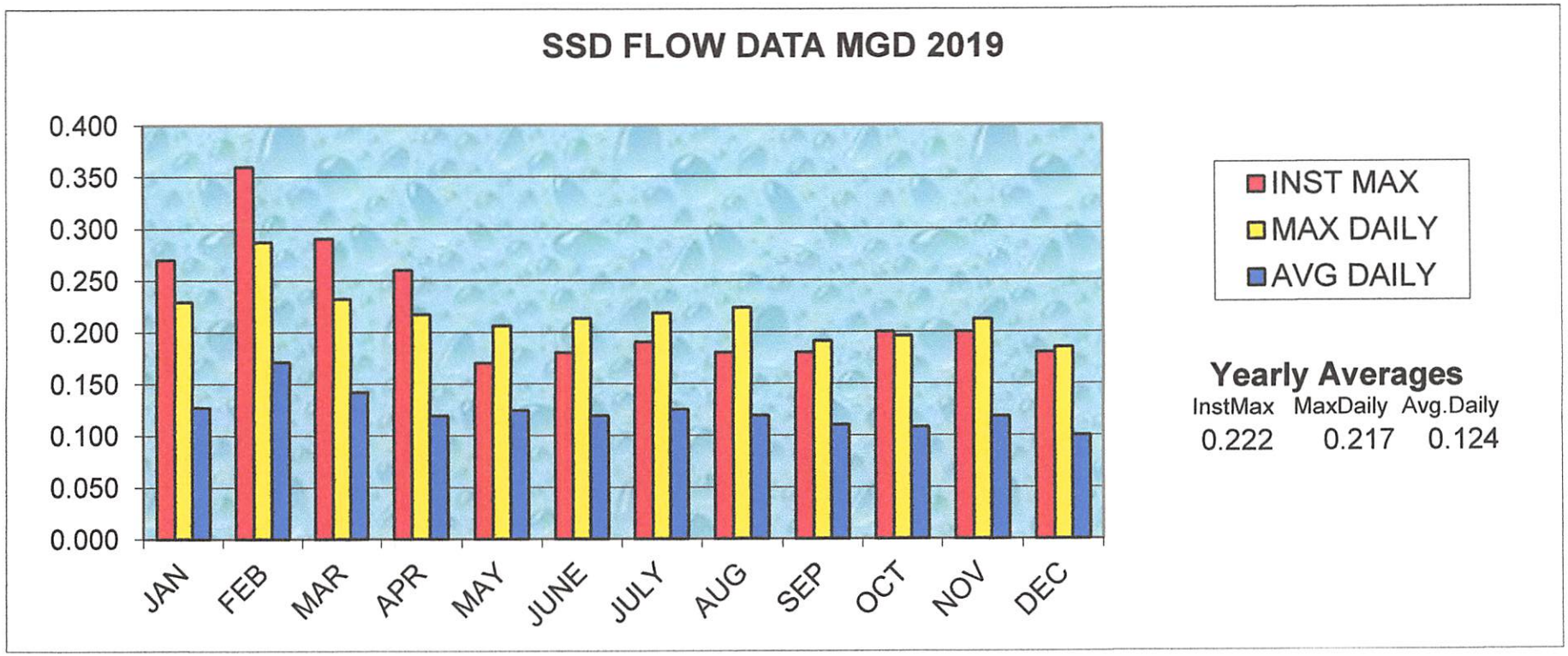
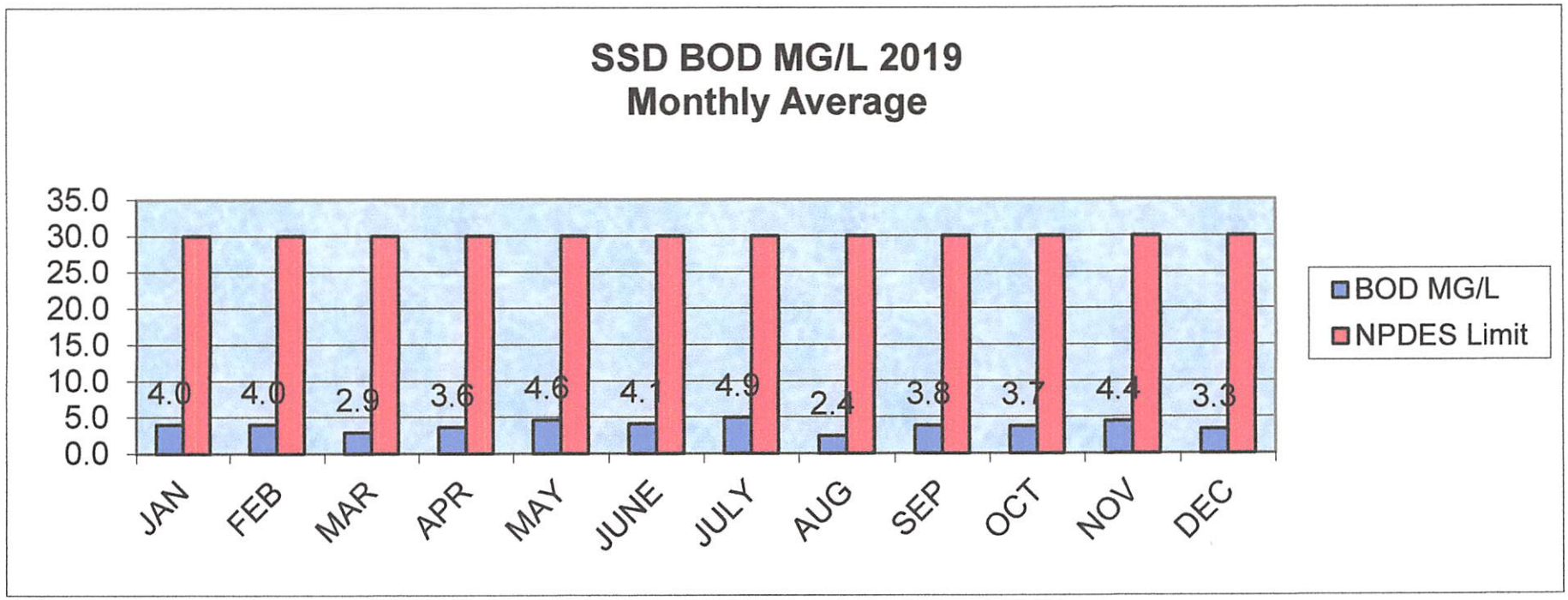
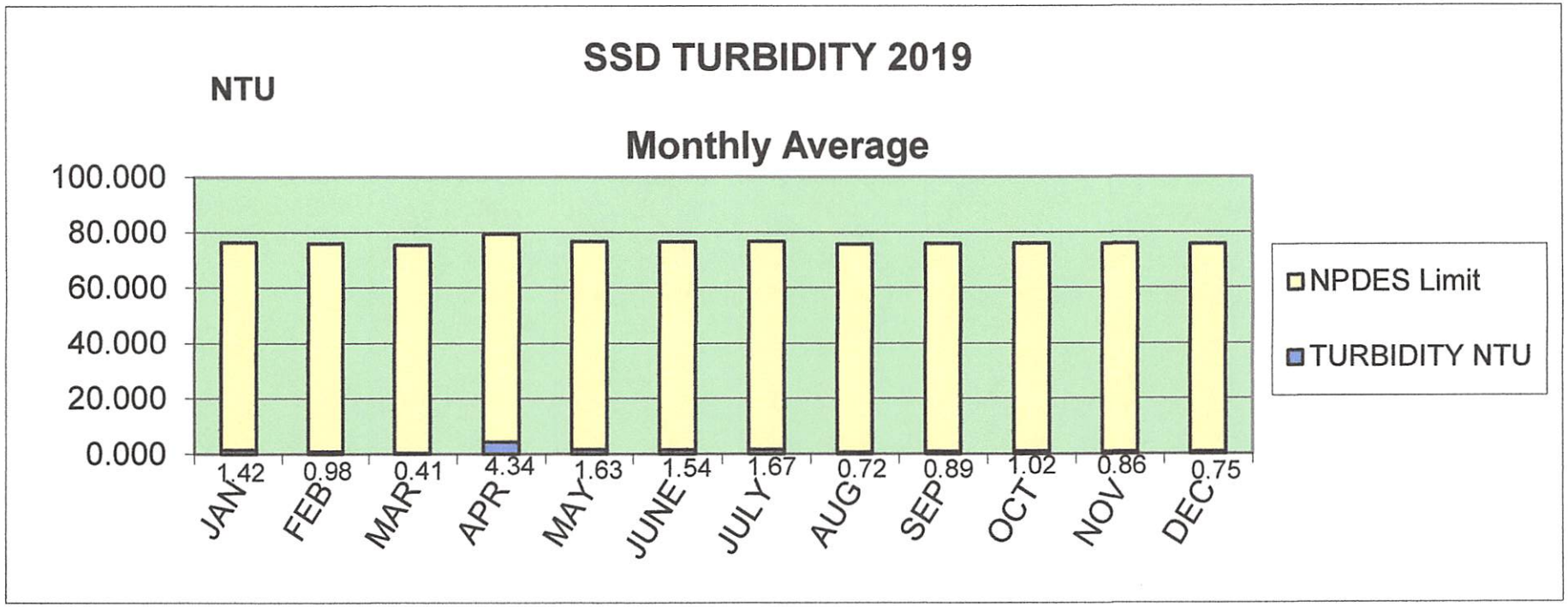
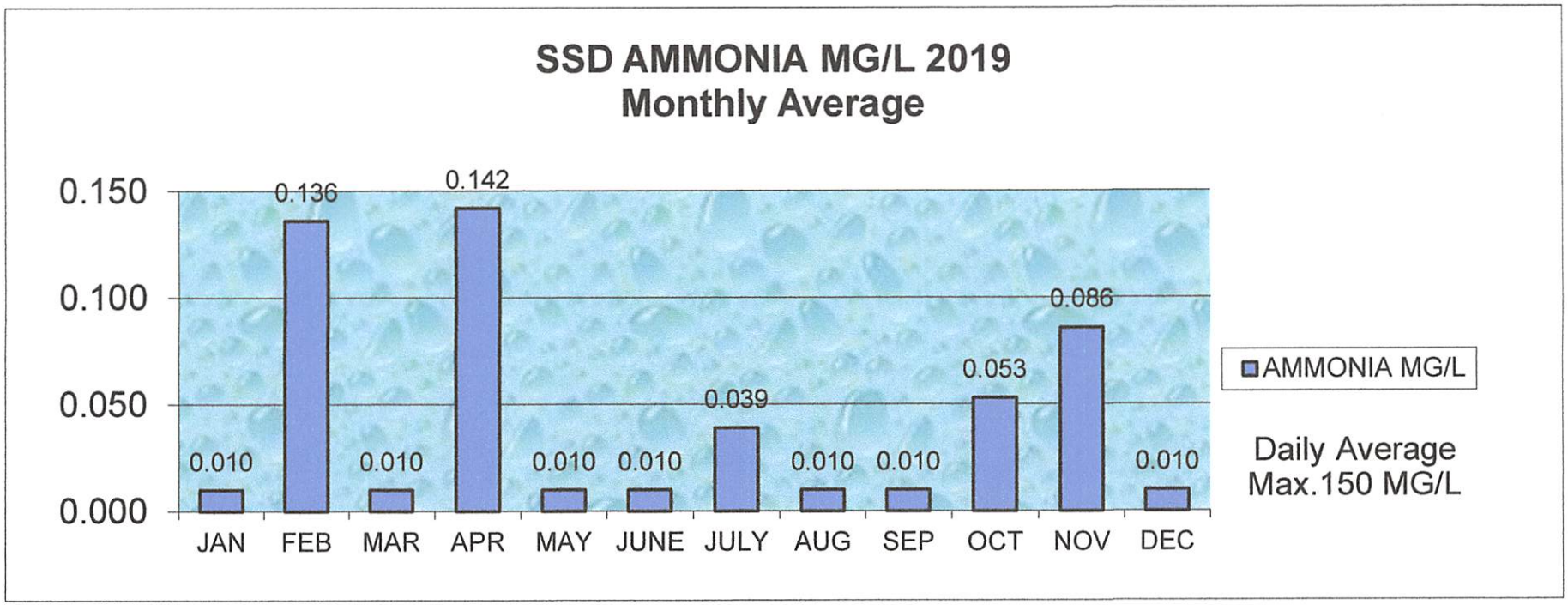
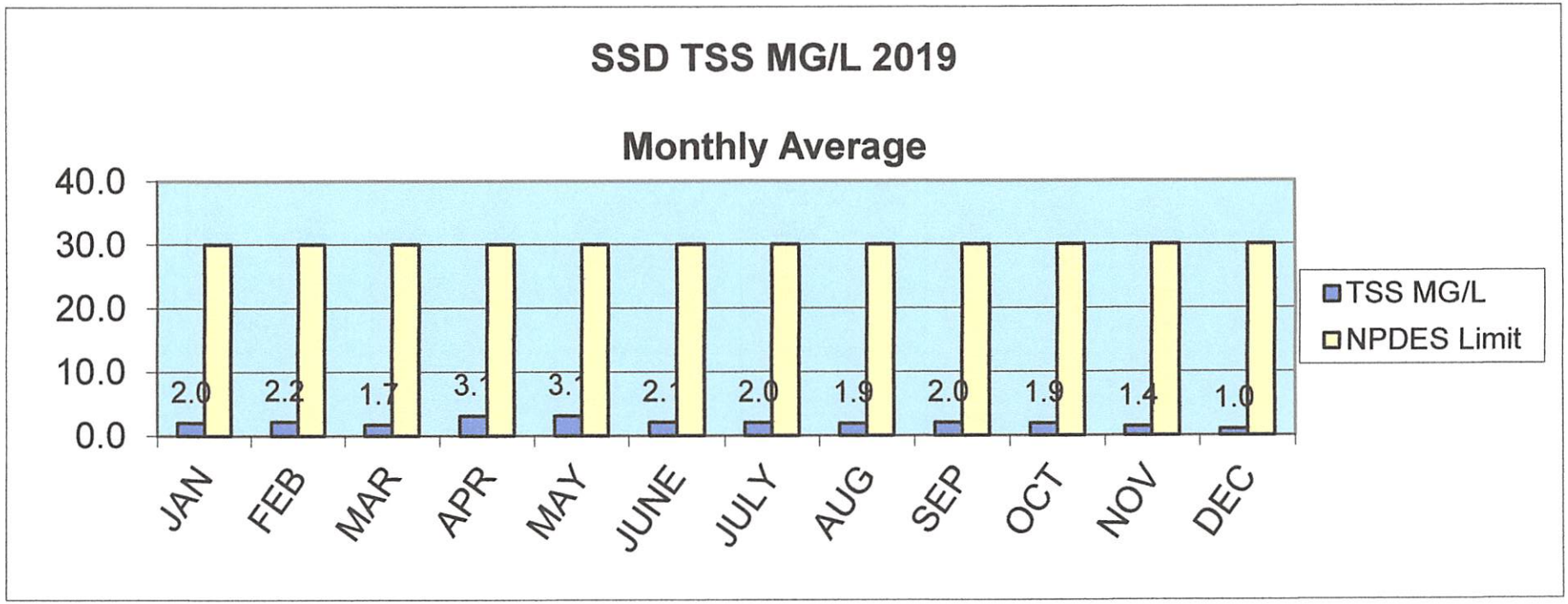

SSD FLOW DATA MGD 2019
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
INST MAX
MAX DAILY
AVG DAILY
Yearly Averages
InstMax MaxDaily Avg.Daily
0.222 0.217 0.124

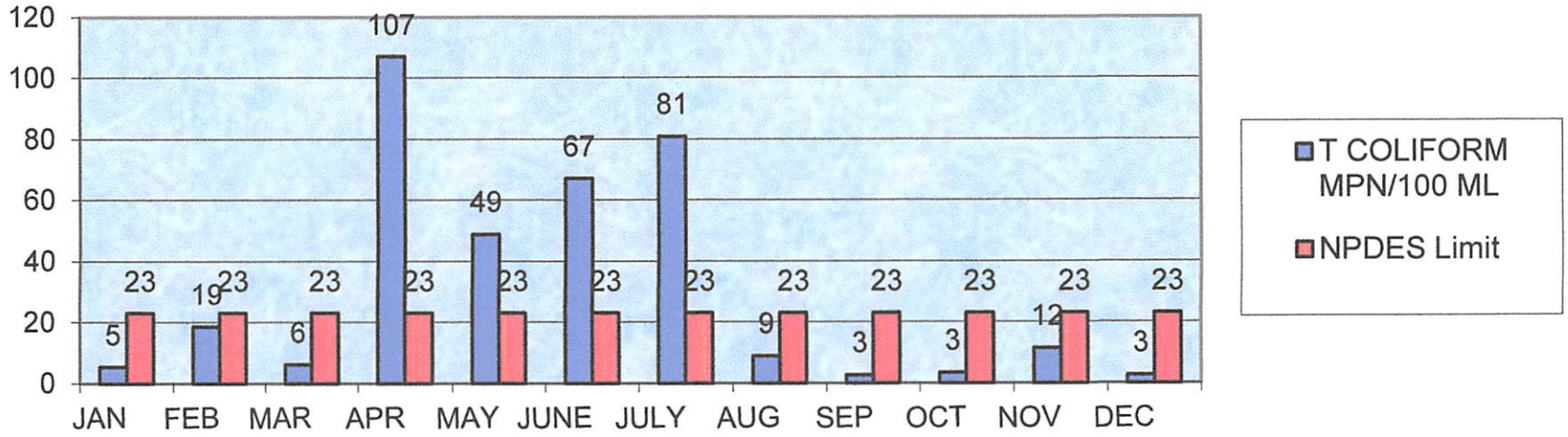

SSD BOD MG/L 2019
Monthly Average
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
4.0
4.0
2.9
3.6
4.6
4.1
4.9
2.4
3.8
3.7
4.4
3.3
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
BOD MG/L
NPDES Limit


SSD TURBIDITY 2019
NTU
Monthly Average
100.000
80.000
60.000
40.000
20.000
0.000
1.42
0.98
0.41
4.34
1.63
1.54
1.67
0.72
0.89
1.02
0.86
0.75
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
NPDES Limit
TURBIDITY NTU

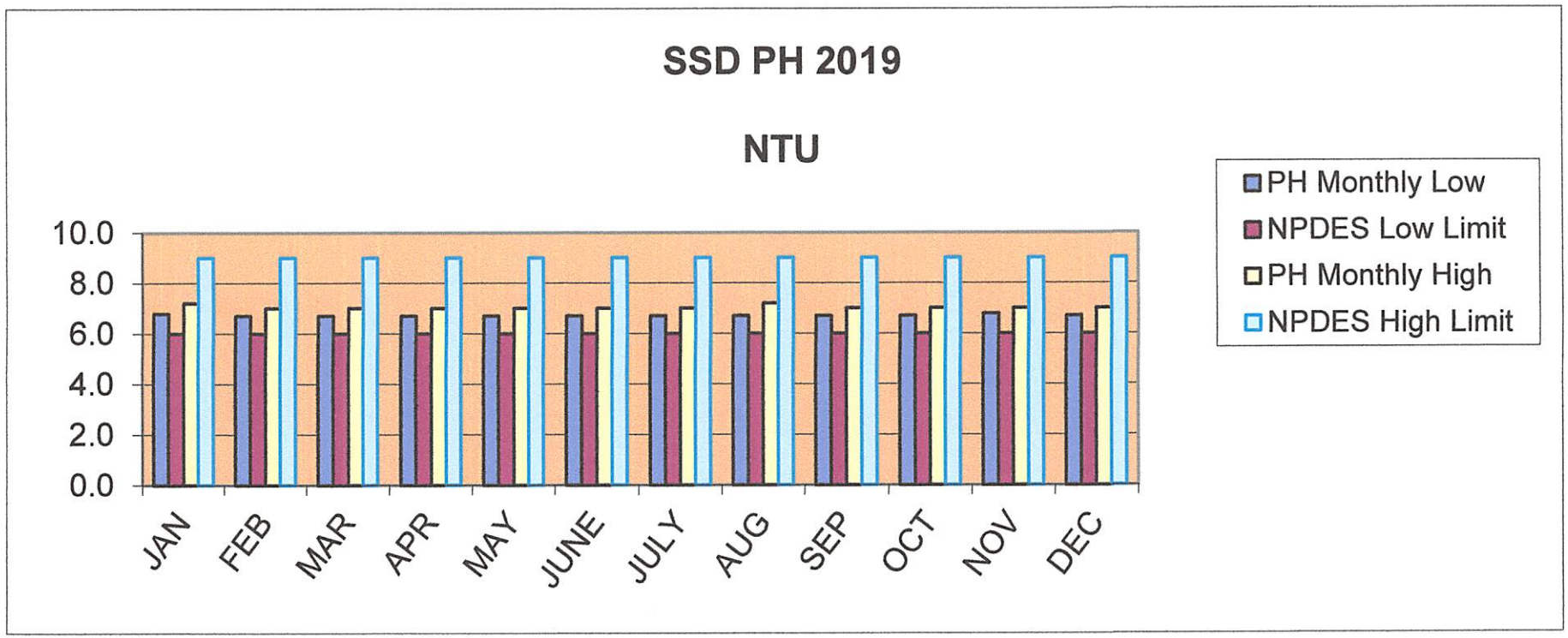

SSD AMMONIA MG/L 2019
Monthly Average
0.150
0.100
0.050
0.000
0.010
0.136
0.010
0.142
0.010
0.010
0.039
0.010
0.010
0.053
0.086
0.010
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
AMMONIA MG/L
Daily Average
Max.150 MG/L

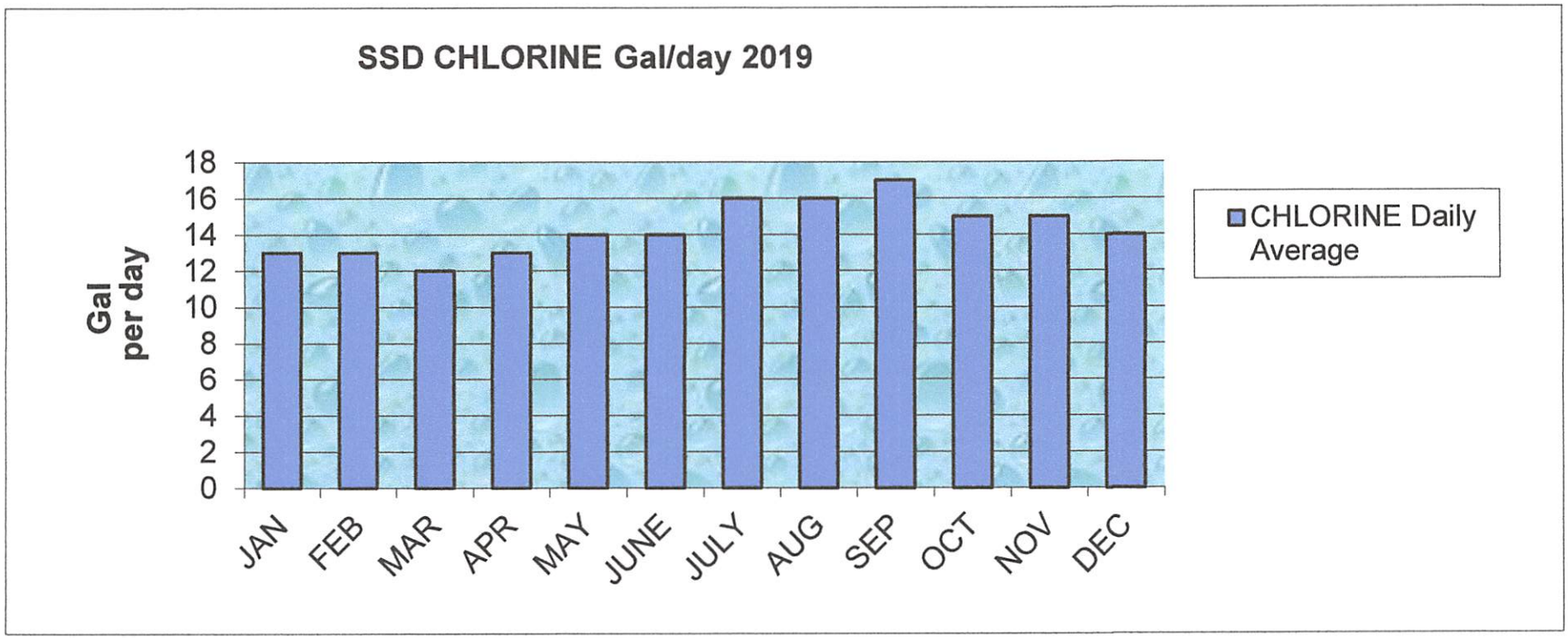

SSD TSS MG/L 2019
Monthly Average
40.0
30.0
20.0
10.0
0.0
2.0
2.2
1.7
3.1
3.1
2.1
2.0
1.9
2.0
1.9
1.4
1.0
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
TSS MG/L
NPDES Limit

SSD TOTAL COLIFORM 2019

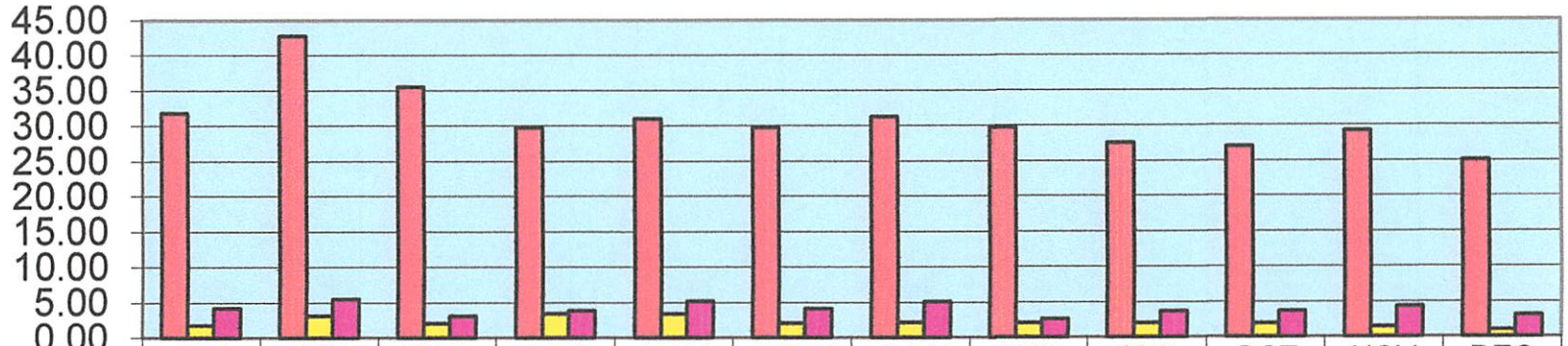


Seven day median shall not exceed 23 MPN.
Any single sample shall not exceed 2300 MPN.


SSD PH 2019
NTU
10.0
8.0
6.0
4.0
2.0
0.0
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
PH Monthly Low
NPDES Low Limit
PH Monthly High
NPDES High Limit


SSD CHLORINE Gal/day 2019
Gal per day
18
16
14
12
10
8
6
4
2
0
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
CHLORINE Daily Average

SSD EFFLUENT Mass Emissions Monthly 2019



	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
Max Emissions Lbs/d	31.77	42.78	35.52	29.77	31.02	29.77	31.27	29.77	27.52	27.02	29.25	25.02
Suspd"d Solids Lbs/d	1.75	3.18	2.10	3.48	3.42	2.13	2.19	2.13	2.06	1.97	1.44	1.01
BOD Lbs/d	4.2	5.5	3.1	3.9	5.2	4.1	5.1	2.6	3.7	3.7	4.3	3.1

Summerland Sanitary District

Annual 2019

MONTH	INST MAX	MAX DAILY	AVG DAILY	BOD MG/L	NPDES Limit	TURBIDITY NTU	NPDES Limit	AMMONIA MG/L	NPDES Limit	TSS MG/L	NPDES Limit
JAN	0.270	0.229	0.127	4.0	30.0	1.423	75.00	0.010	150	2.03	30
FEB	0.360	0.287	0.171	4.0	30.0	0.981	75.00	0.136	150	2.25	30
MAR	0.290	0.232	0.142	2.9	30.0	0.409	75.00	0.010	150	1.77	30
APR	0.260	0.217	0.119	3.6	30.0	4.336	75.00	0.142	150	3.14	30
MAY	0.170	0.206	0.124	4.6	30.0	1.630	75.00	0.010	150	3.13	30
JUNE	0.180	0.213	0.119	4.1	30.0	1.540	75.00	0.010	150	2.13	30
JULY	0.190	0.218	0.125	4.9	30.0	1.670	75.00	0.039	150	2.09	30
AUG	0.180	0.223	0.119	2.4	30.0	0.715	75.00	0.010	150	1.95	30
SEP	0.180	0.191	0.110	3.8	30.0	0.891	75.00	0.010	150	2.05	30
OCT	0.200	0.196	0.108	3.7	30.0	1.017	75.00	0.053	150	1.90	30
NOV	0.200	0.212	0.118	4.4	30.0	0.857	75.00	0.086	150	1.47	30
DEC	0.180	0.185	0.100	3.3	30.0	0.746	75.00	0.010	150	1.03	30
AVERAGE	**0.222**	**0.217**	**0.124**	**3.8**	30.0	**1.351**	75.00	**0.044**	150	**2.08**	30

MONTH	T COLIFORM MPN/100 ML	NPDES Limit	PH Monthly Low	NPDES Low Limit	PH Monthly High	NPDES High Limit	CHLORINE Daily Av.	SLUDGE TONS	Max Emissions Lbs/d	TSS Lbs/d	BOD Lbs/d
JAN	5.40	23	6.8	6	7.2	9	13		31.77	1.75	4.2
FEB	18.60	23	6.7	6	7.0	9	13		42.78	3.18	5.5
MAR	6.10	23	6.7	6	7.0	9	12		35.52	2.10	3.1
APR	107.00	23	6.7	6	7.0	9	13		29.77	3.48	3.9
MAY	48.77	23	6.7	6	7.0	9	14		31.02	3.42	5.2
JUNE	67.10	23	6.7	6	7.0	9	14		29.77	2.13	4.1
JULY	80.80	23	6.7	6	7.0	9	16	49.71	31.27	2.19	5.1
AUG	8.90	23	6.7	6	7.2	9	16		29.77	2.13	2.6
SEP	2.60	23	6.7	6	7.0	9	17		27.52	2.06	3.7
OCT	3.40	23	6.7	6	7.0	9	15		27.02	1.97	3.7
NOV	11.50	23	6.8	6	7.0	9	15		29.25	1.44	4.3
DEC	2.60	23	6.7	6	7.0	9	14		25.02	1.01	3.1
AVERAGE	**30.23**	23	**6.7**	6	**7.0**	9	15	**49.71**	**30.87**	**2.24**	**4.0**

Salty Dog Dive Service

Summerland Sanitary District Outfall Dive Inspection Report
August 12, 2019

On August 12, 2019 Salty Dog Dive Service performed an under water inspection of the Summerland Sanitary District outfall pipe and diffusers. We also cleaned and inspected the pipeline marker buoy, chain, swivel and shackles. Underwater visibility varied between 3'-5'. Below are our findings:

- On the first dive we cleaned the buoy and the chain from the buoy down to the clump weight. The buoy and chain were covered with mussels and hard marine growth. We scraped and scrubbed the buoy clean and also cleaned the top of the buoy, which was covered with guano. The anti-fouling bottom paint on the buoy is thin, about 60% gone and not very effective. We replaced the plastic cap on the top of the buoy as the old one was broken and would allow rainwater to fill the buoy. The stainless steel eye at the bottom of the buoy shows some wear but is still solid. The buoy is still listing a little and should be monitored as it is somewhat compromised. The chain from the bottom of the buoy to the clump weight on the bottom is worn thin and should be replaced.

- On the second dive we inspected the outfall and diffusers. We started the outfall pipe inspection from the offshore end of the outfall, working toward the beach. First, we inspected the diffusers and found the west diffuser visibly flowing and the east diffuser with very minimal flow, which we could feel more than see. We then inspected the outfall pipe until it became completely buried in sand. Under water visibility was approximately 3 - 5'.

- The diffusers and the outfall pipe are completely covered with very heavy marine growth as well as having a lot of kelp growing on it. We scraped a lot of kelp off the diffusers so we could inspect them better. The pipeline is laying flat in the sand with only a few small areas that are scoured out under the pipe. The areas of the pipe that were visible appear to be sound. We did not see any damage to the pipeline.

- We did not see anything lying on the pipe.

- As we followed the pipe into the surf zone it became completely buried in the sand. Generally, the outfall pipeline appears sound although it is very heavily fouled with marine growth.

Marine Contracting and Dive Service
6 Harbor Way #205, Santa Barbara, CA 93109 phone (805) 962-9009 • fax (805) 962-1979
CA State License #763868

Salty Dog Dive Service

- We were able to inspect 30 flanges and sections of pipe.

- Pipe / Flange 1: This pipe is laying flat in the sand, 70% buried. No scoured areas.
- Pipe / Flange 2: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Flange 3: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Flange 4: This pipe is laying flat in the sand, 40% buried. No scoured areas.
- Pipe / Flange 5: This pipe is laying flat in the sand, 30% buried. No scoured areas.
- Pipe / Flange 6: This pipe is laying flat in the sand, 50% buried. No scoured out areas.
- Pipe / Flange 7: This pipe is laying flat in the sand, 30% buried. No scoured areas. There is kelp growing off this pipe.
- Pipe / Flange 8: This pipe is laying flat in the sand, fully exposed with a few areas scoured out 2" – 3".
- Pipe / Flange 9: This pipe is laying flat in the sand, 20% buried. No scoured areas.
- Pipe / Flange 10: This pipe is laying flat in the sand, 20% buried. No scoured areas.
- Pipe / Flange 11: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Flange 12: This pipe is laying flat in the sand, 70% buried. No scoured areas.
- Pipe / Flange 13: This pipe is laying flat in the sand, 80% buried. No scoured areas.
- Pipe / Flange 14: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Flange 15: This pipe is laying flat in the sand, 40% buried. No scoured areas.
- Pipe / Flange 16: This pipe is laying flat in the sand, 20% buried. No scoured areas.
- Pipe / Flange 17: This pipe is laying flat in the sand, 40% buried. No scoured areas.
- Pipe / Flange 18: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Flange 19: This pipe is laying flat in the sand, 90% buried with heavy kelp growing on it. No scoured areas.
- Pipe / Flange 20: This pipe is laying flat in the sand, 90% buried. No scoured areas.
- Pipe / Flange 21: This pipe is laying flat in the sand, 10% buried. There are 2 small areas with 2" – 3" scoured out from under the pipe.
- Pipe / Flange 22: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Flange 23: This pipe is laying flat in the sand, 10% buried. No scoured areas.

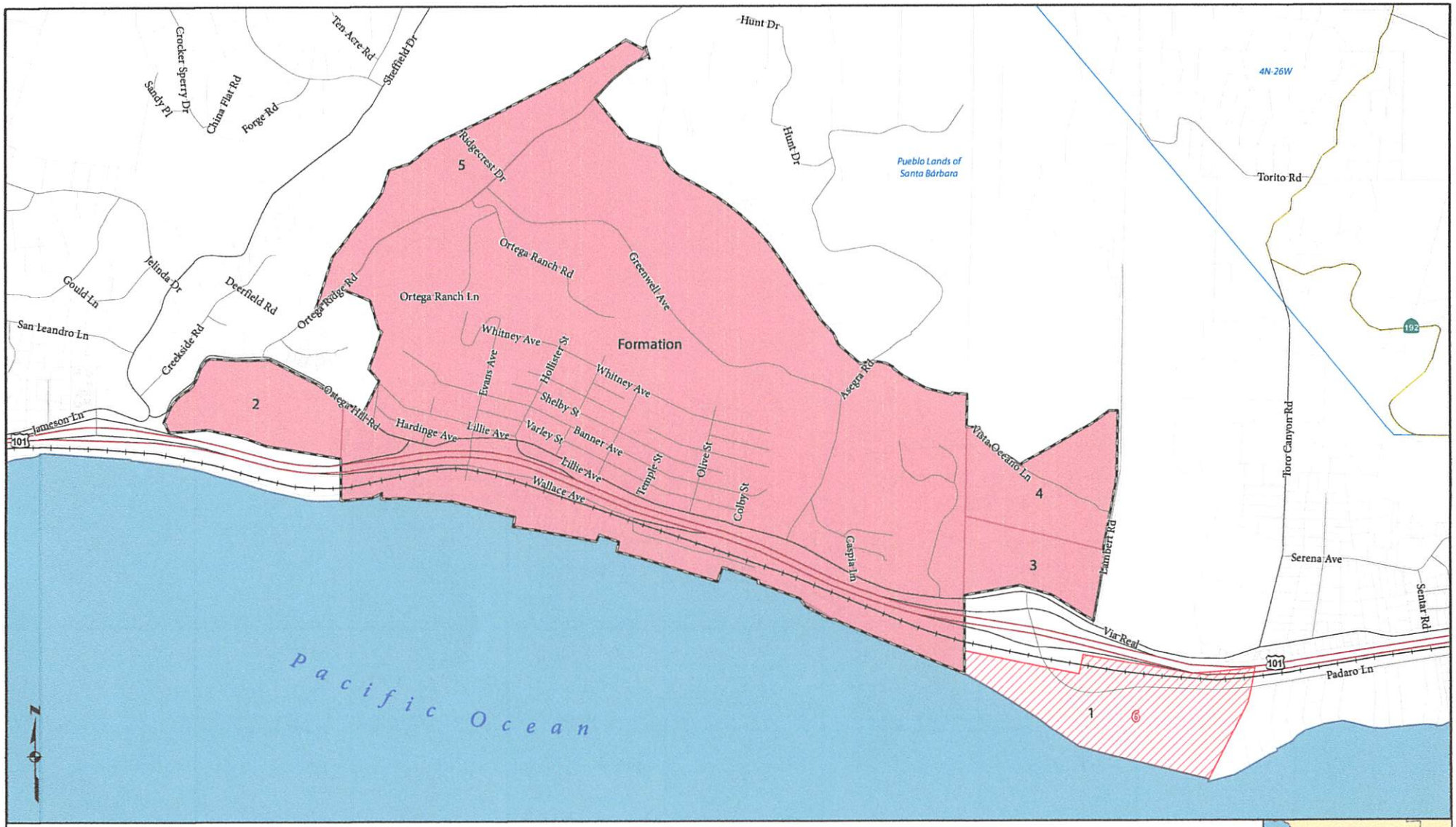
Marine Contracting and Dive Service
6 Harbor Way #205, Santa Barbara, CA 93109 phone (805) 962-9009 • fax (805) 962-1979
CA State License #763868

Salty Dog Dive Service

- Pipe / Flange 24: This pipe is laying flat in the sand, 10% buried. No scoured areas.
- Pipe / Flange 25: This pipe is laying flat in the sand, 10% buried. No scoured areas.
- Pipe / Flange 26: This pipe is laying flat in the sand, 50% buried. No scoured areas.
- Pipe / Flange 27: This pipe is laying flat in the sand, 70% buried. No scoured areas.
- Pipe / Flange 28: This pipe is laying flat in the sand, 30% buried. No scoured areas.
- Pipe / Flange 29: This pipe is laying flat in the sand, completely exposed. There is a 6" section under the pipe where 2" – 3" of sand is scoured out.
- Pipe / Flange 30: The first half of this pipe is laying flat in the sand, 30% buried and then becomes completely buried in the sand.
- No other sections were visible at this point.

The only recommendation at this time is to replace the chain from the buoy to the clump weight at the bottom as the chain is worn. The outfall marker buoy should be monitored as well as it is slightly listing.

Report prepared by Rick Sanchez
Salty Dog Dive Service
6 Harbor Way #205
Santa Barbara CA 93109
August 15, 2019



Summerland Sanitary District

Compiled by the Office of the County Surveyor on 5/9/2014. Formed 2/25/1957 by Board of Supervisors Resolution 16511. Last Action: 6, West Padaro Lane Reorganization, LAFCO 13-10, 2/10/2014. Sphere: 11/4/2010, modified 2/10/2014.

See Boundary Activity Table at http://www.countyofsb.org/pwd/pwsurveyor.aspx?id=23260.

NOTICE OF DISCLAIMER: This data is for reference only. Although every effort has been made to ensure the accuracy of information, errors and conditions originating from physical sources used to develop the database may be reflected in this data. Santa Barbara County shall not be liable for any errors, omissions, or damages that result from inappropriate use of this document. No level of accuracy is claimed for the boundary lines shown hereon and lines should not be used to obtain coordinate values, bearings or distances.

GRAPHIC SCALE

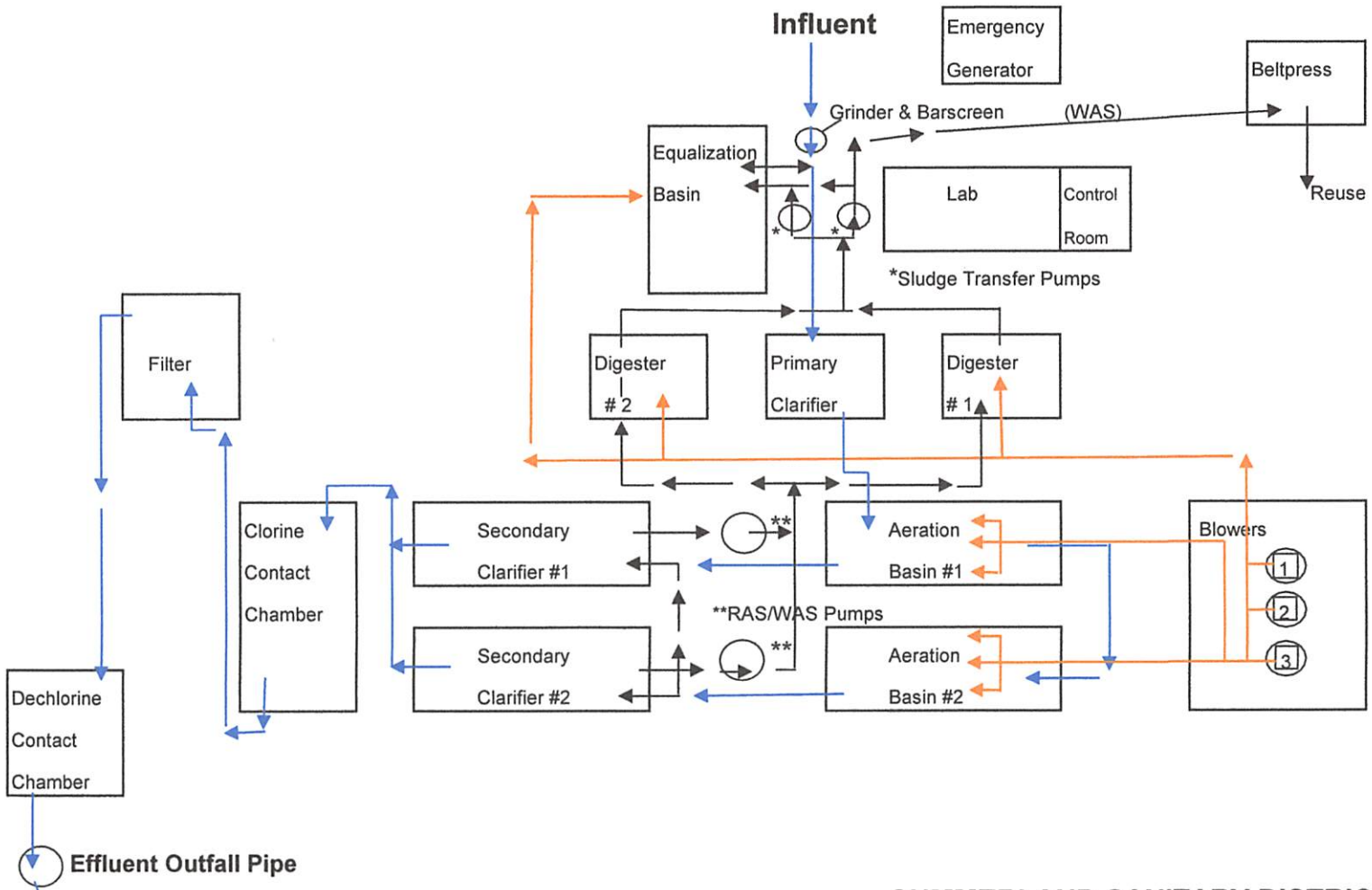
0 0.1 0.2 0.4

Miles

Legend

- Freeways
- Highways
- Roads
- Railroads
- Parcels
- Sections
- Ranchos and Townships
- County Boundary
- Sphere of Influence
- Formation
- Annexation
- Detachment

Attachment B



To Ocean Outfall

Santa Barbara Channel

34º 25' 00" North Latitude 119º 35' 48" West Longitude

SUMMERLAND SANITARY DISTRICT

Treatment Plant Flow Diagram

Design Flow .3 MGD

Average Daily Flow .124 MGD

legend:

Blue → Flow

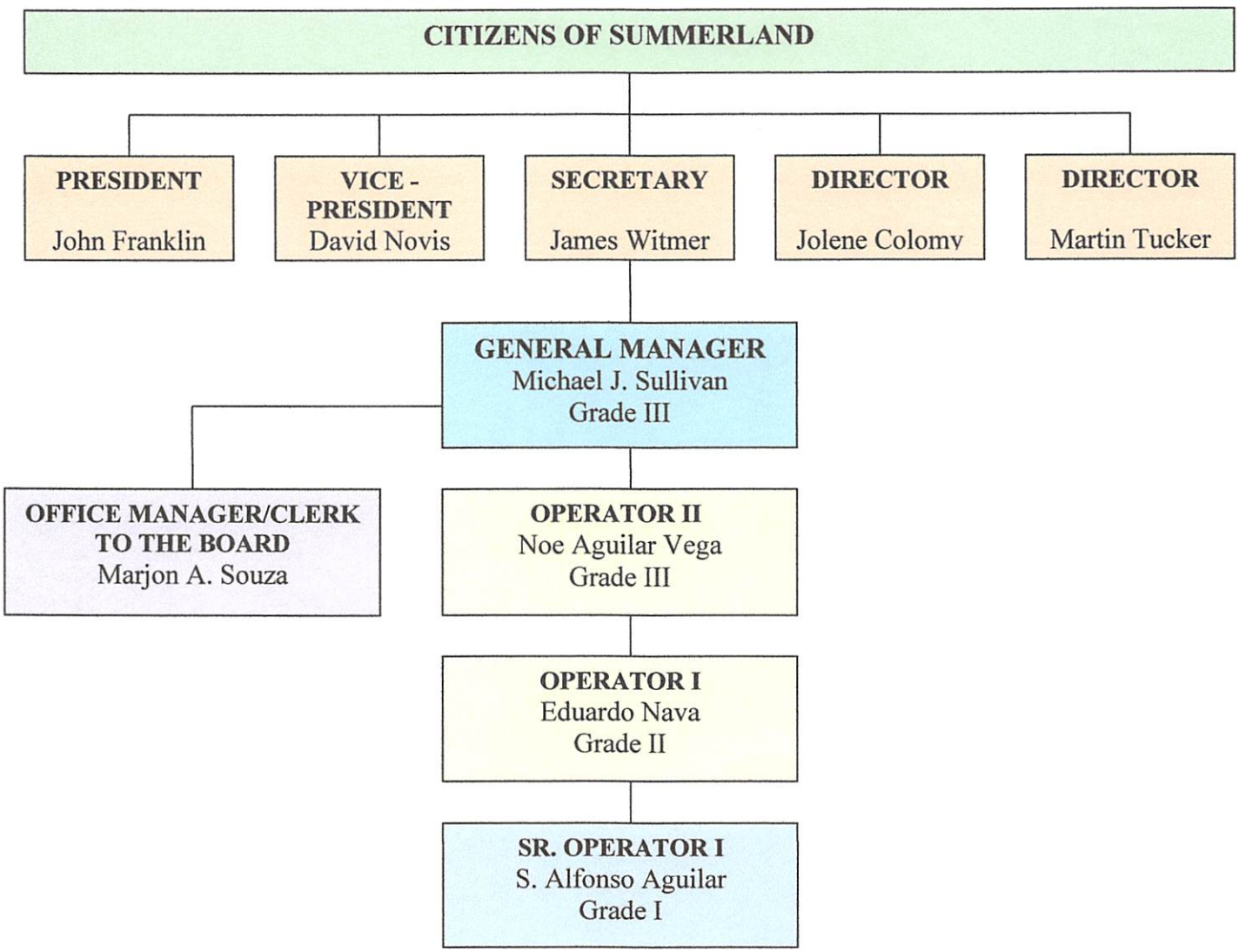
Orange → Air

Black → RAS/WAS

Attachment C

NPDES No. CA0048054
Order No. R3-2013-0042

SUMMERLAND SANITARY DISTRICT
ORGANIZATION CHART



August 29, 2019

Summerland Sanitary District
P.O. Box 0417
Summerland, CA 93067-0417

Lab ID : SP 1910204-001
Customer ID : 2-2306

Sampled On : August 5, 2019-12:50
Sampled By : Noe Aguilar Vega
Received On : August 5, 2019-15:00
Matrix : Biosolids

Description : Biosolids
Project : RWQCB Biosolids Monitoring

Sample Result - Inorganic(Dry Weight)

Constituent	Result	PQL	MDL	Units	Dilution	DQF	Sample Preparation Method	Sample Preparation ID	Sample Preparation Time	Sample Analysis Method	Sample Analysis ID	Sample Analysis Time
Metals, Total												
Boron	109	26	0.10	mg/kg	4.8017		3050	209138	08/12/19 13:05	6010B	212509-IT204	08/14/19-11:48AC
Cadmium	0.669	1.6	0.051	mg/kg	4.8017	Jl	3050	209138	08/12/19 13:05	6010B	212509-IT204	08/14/19-11:48AC
Chromium	10.1	0.54	0.030	mg/kg	0.96034		3050	209138	08/12/19 13:05	6010B	212441-IT204	08/13/19-19:31AC
Copper	479	0.54	0.064	mg/kg	0.96034		3050	209138	08/12/19 13:05	6010B	212441-IT204	08/13/19-19:31AC
Lead	7.90	1.1	0.065	mg/kg	0.96034		3050	209138	08/12/19 13:05	6010B	212441-IT204	08/13/19-19:31AC
Nickel	10.0	0.54	0.14	mg/kg	0.96034		3050	209138	08/12/19 13:05	6010B	212441-IT204	08/13/19-19:31AC
Phosphorus	12000	260	0.61	mg/kg	48.017	P	3050	209138	08/12/19 13:05	6010B	212579-IT204	08/15/19-11:11AC
Silver	1.91	0.54	0.025	mg/kg	0.96034		3050	209138	08/12/19 13:05	6010B	212441-IT204	08/13/19-19:31AC
Zinc	507	1.1	0.94	mg/kg	0.96034		3050	209138	08/12/19 13:05	6010B	212441-IT204	08/13/19-19:31AC
Wet Chemistry												
Ammonia Nitrogen	339	22	0.17	mg/kg	5	b	4500NH3B	209436	08/19/19 10:00	4500NH3G	212836-FI207	08/19/19-11:37JDD
% Moisture	7.80	0.099	0.030	%	0.99358		2540G	208887	08/08/19 15:31	2540B	212206-WT215	08/09/19-17:04LCR
Nitrate Nitrogen	282	860	0.27	mg/kg	26		300	209809	08/26/19 15:45	300.0	213339-IC210	08/27/19-09:55JMR
Nitrogen, Total Kjeldahl	5410	540	33	mg/kg	20		351.2	209248	08/14/19 12:15	EPA351.2	212572-FI206	08/15/19-11:56JDD
pH	6.36	--	0.0	units	1	T	9045C	209488	08/19/19 15:00	4500HB	212813-PH203	08/19/19-16:09JBA

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Summerland - 2019

Month	Wet Tons	% Solids	Dry Tons
Jan		-	
Feb		-	
Mar		-	
April		-	
May		-	
June		-	
July	49.71	24%	10.73
Aug		-	
Sept		-	
Oct		-	
Nov		-	
Dec		-	
Total	49.71	23.8%	10.73