



LAGUNA AAAWATER CORPORATION
OPERATIONS DEPARTMENT
LABORATORY SERVICES
CHEMICAL ANALYSIS OF SAMPLES FROM SOURCE AND CONSUMER'S TAPS - PROVINCE OF LAGUNA

CITY/MUNICIPALITY **SANTA CRUZ** MONTH : **NOVEMBER** YEAR : **2019**
DCH ACCREDIATION NO : **04A-001-1820-LW-2** VALIDITY : **December 31, 2020** DOCUMENT NO : **TR-19-3431**

SAMPLE LOCATION				PHYSICAL/ CHEMICAL PARAMETERS																					
NO	ADDRESS	TYPE	DATE COLLECTED	SAMPLE CODE	*pH ¹	*Residual Chlorine ² (mg/L)	Color apparent ³ (ACU)	Turbidity ⁴ (NTU)	Odor ⁵	Taste ⁶	TD5 ⁷ (mg/L)	Total Hardness ⁸ (mg/L)	Fluoride ⁹ (mg/L)	Chloride ⁹ (mg/L)	Nitrate ⁹ (mg/L)	Sulfate ⁹ (mg/L)	Chromium ¹⁰ (mg/L)	Manganese ¹⁰ (mg/L)	Iron ¹⁰ (mg/L)	Copper ¹⁰ (mg/L)	Zinc ¹⁰ (mg/L)	Arsenic ¹⁰ (mg/L)	Cadmium ¹⁰ (mg/L)	Lead ¹⁰ (mg/L)	
Brgy. Bubukal																									
1	DMI Filtration Laguna Sport Complex	S	5-Nov	S19-6438	7.49/ 28.9	0.51	< 2	< 0.13	UO	UO	243	148	0.394	7.14	< 1.14	2.07	< 0.000037	< 0.000305	0.0435	< 0.0000494	0.000673	0.00127	0.0000923	< 0.0000324	
2	Canteen No. 4 Front of Laguna University	D	5-Nov	S19-6439	7.36/ 29.1	0.56	< 2	< 0.13	UO	UO	241	132	0.362	6.87	< 1.14	2.06	< 0.000037	< 0.000305	0.0423	< 0.0000494	0.000579	0.00118	0.0000826	< 0.0000324	
Brgy. P. Guevarra Capitol																									
3	Water Pump, Capitol Compound	S	5-Nov	S19-6440	7.11/ 28.8	0.59	10	0.30	UO	UO	240	147	0.450	21.4	< 1.14	2.79	< 0.000037	< 0.000305	0.514	0.00189	0.000534	0.00215	0.000654	< 0.0000324	
4	Old Building, Capitol Compound	D	5-Nov	S19-6441	7.12/ 27.9	0.40	10	0.30	UO	UO	223	136	0.456	21.4	< 1.14	3.01	< 0.000037	< 0.000305	0.506	0.00173	0.000526	0.00189	0.000621	< 0.0000324	
Brgy. Pagsawitan																									
5	Cistern Tank, Laguna Medical Center	D	5-Nov	S19-6442	7.86/ 28.7	0.61	10	0.35	UO	UO	253	167	0.444	21.1	< 1.14	2.82	< 0.000037	< 0.000305	0.489	0.00178	0.000512	0.00209	0.000634	< 0.0000324	
6	Kitchen, Laguna Medical Center	D	5-Nov	S19-6443	7.12/ 27.6	0.39	10	0.3	UO	UO	240	162	0.448	21.4	< 1.14	3.06	< 0.000037	< 0.000305	0.487	0.00163	0.000508	0.00206	0.000628	< 0.0000324	
TOTAL SAMPLES ANALYZED			6	PNSDW LIMIT (MAL)	6.5 – 8.5	0.30 – 1.50	10	5	UO	UO	600	300	1.50	250	50	250	0.05	0.4	1.0	1.0	5.0	0.01	0.003	0.01	

REMARKS: Samples analyzed as submitted

LEGEND: S - Source, D - Distribution, MAL - Maximum Allowable Limit, NT - Not Tested, NTU - Nephelometric Turbidity Unit, UO - Unobjectionable, NPT - Not Fit to Taste, ACU - Apparent Color Unit, naI - no set limit, *tested on-site, < - less than detection limit

METHODS USED: ¹4500-HH - Electrometric, ²4500-Cl-G.DPD Colorimetric, ³2120B. Visual Comparison (Pt-Co), ⁴2130. Nephelometric, ⁵2150. Sensory, ⁶2160. Sensory, ⁷2540C. Total Dissolved Solids (TDS) dried @ 180°C, ⁸2340C. EDTA Titrimetric, ⁹4110B. Ion Chromatography, ¹⁰SAMPLE PREPARATION: 3030K. Microwave-Assisted Nitric Acid Digestion ANALYSIS: 3125. Metals by Inductively-Coupled Plasma - Mass Spectrometer (ICP-MS)

CERTIFIED CORRECT BY:

DIANNE D. DASMARIÑAS, RCh
Analytical Services Manager
PRC License No. 0011960

NOTED BY:

ANNA KARLA X. GUTIERREZ, RMT
Laboratory Services Manager
PRC License No. PRC 0060968