



P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
DATE	01/10/19	N/S	01/10/19	01/10/19	01/10/19	01/10/19	N/S	01/10/19	01/10/19	01/10/19	01/10/19	01/10/19	01/10/19	01/10/19
LOCATION	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10	A-12	A-13	A-14	A-15
TEMPERATURE (°C)	27.0	N/S	27.5	27.5	28.0	28.0	N/S	28.0	27.5	27.5	27.5	27.5	28.0	28.0
pH	7.48	N/S	7.58	7.38	7.42	7.36	N/S	7.69	7.54	7.41	7.32	7.46	7.30	7.33
TURBIDITY (NTU)	0.63	N/S	0.09	0.09	0.10	0.08	N/S	0.18	0.24	0.37	0.11	0.15	0.16	0.31
CONDUCTIVITY (µmho)	607	N/S	559	870	550	587	N/S	573	1310	1613	614	2160	1223	935
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	296	N/S	274	338	268	296	N/S	294	386	356	310	420	372	272
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	306	N/S	294	362	286	308	N/S	298	418	430	436	498	434	314
CHLORIDES (Mg/l Cl)	27.5	N/S	17.0	97.0	20.5	23.5	N/S	21.0	224.4	356.9	31.5	492.3	201.4	132.9
TOTAL COLIFORM (cfu/100mL)	NEG	N/S	NEG	POS	NEG	NEG	N/S	NEG	NEG	POS	NEG	NEG	POS	NEG
FECAL COLIFORM (cfu/100mL)	NEG	N/S	NEG	NEG	NEG	NEG	N/S	NEG	NEG	NEG	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	290	N/S	290	315	274	295	N/S	292	328	318	320	335	337	270

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

REMARKS:

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	15	16	17	18	19	20	21	22	23	24	25	26	27
DATE	01/10/19	01/10/19	01/10/19	01/10/19	N/S	N/S	N/S	N/S	N/S	01/10/19	01/10/19	01/10/19	01/10/19
LOCATION	A-17	A-18	A-19	A-21	A-23	A-25	A-26	A-28	A-29	A-30	A-31	A-32	NAS-1
TEMPERATURE (0C)	27.5	27.5	28.0	28.0	N/S	N/S	N/S	N/S	N/S	28.0	27.0	27.0	28.0
pH	7.49	7.26	7.28	7.70	N/S	N/S	N/S	N/S	N/S	7.36	7.34	7.39	7.60
TURBIDITY (NTU)	0.15	0.08	0.14	0.18	N/S	N/S	N/S	N/S	N/S	0.13	0.14	0.17	0.11
CONDUCTIVITY (µmho)	978	1473	2050	1541	N/S	N/S	N/S	N/S	N/S	591	572	532	756
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	230	370	390	292	N/S	N/S	N/S	N/S	N/S	278	256	254	242
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	264	438	476	326	N/S	N/S	N/S	N/S	N/S	286	266	264	264
CHLORIDES (Mg/l Cl <sup>-</sup> )	198.9	286.9	480.8	333.4	N/S	N/S	N/S	N/S	N/S	33.5	26.5	25.0	111.0
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	N/S	N/S	N/S	N/S	N/S	POS	POS	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	N/S	N/S	N/S	N/S	N/S	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	218	332	316	258	N/S	N/S	N/S	N/S	N/S	266	260	254	232

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS**

**1st Quarter 2019**

SAMPLE NO.	28	29	30	31	32	33	34	35	36	37	38	39	40	41
DATE	01/17/19	03/13/19	01/17/19	01/17/19	01/17/19	01/17/19	01/17/19	01/17/19	01/17/19	03/13/19	N/S	01/17/19	01/17/19	01/17/19
LOCATION	M-1	M-2	M-3	M-4	M-5	M-6	M-7	M-8	M-9	M-12	M-14	M-15	M-17A	M-17B
TEMPERATURE (°C)	27.0	28.0	27.0	27.0	27.5	27.5	27.5	28.0	27.0	27.5	N/S	27.5	27.5	27.5
pH	6.97	7.55	7.03	7.06	7.05	7.07	7.11	7.26	7.30	7.88	N/S	7.26	7.23	7.24
TURBIDITY (NTU)	0.14	0.09	0.09	0.09	0.12	0.14	0.09	0.14	0.10	0.13	N/S	0.14	0.21	0.61
CONDUCTIVITY (µmho)	742	556	470	465	569	634	535	420	759	563	N/S	516	647	602
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	166	176	162	172	200	202	202	140	154	236	N/S	204	214	220
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	252	224	218	214	234	232	232	198	236	252	N/S	232	258	252
CHLORIDES (Mg/l Cl <sup>-</sup> )	121.0	58.5	37.0	31.5	50.5	85.5	47.0	25.5	122.5	72.5	N/S	48.0	75.0	73.0
TOTAL COLIFORM (cfu/100mL)	NEG	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	NEG	N/S	POS	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	N/S	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	202	200	196	196	216	206	208	178	189	212	N/S	208	230	234

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS**

**1st Quarter 2019**

SAMPLE NO.	42	43	44	45	46	47								
DATE	01/17/19	01/17/19	01/17/19	01/17/19	01/17/19	01/17/19								
LOCATION	M-18	M-20A	M-21	M-23	EX-11	H-1								
TEMPERATURE (0C)	27.5	27.5	27.5	26.5	27.0	27.0								
pH	7.28	7.26	7.31	7.37	7.46	7.47								
TURBIDITY (NTU)	0.13	0.11	0.44	0.12	0.17	0.28								
CONDUCTIVITY (µmho)	533	618	730	479	567	899								
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	192	216	224	184	162	214								
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	214	246	268	210	226	266								
CHLORIDES (Mg/l Cl')	55.5	68.5	113.5	48.0	68.5	154.9								
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	POS	NEG	NEG								
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG								
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	198	222	235	194	204	214								

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	48	49	50	51	52	53	54	55	56	57	58	59	60	61
DATE	03/14/19	01/24/19	N/S	01/24/19	N/S	01/24/19	01/24/19	01/24/19	03/14/19	01/24/19	01/24/19	01/24/19	N/S	01/24/19
LOCATION	D-1	D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11	D-12	D-13	D-14
TEMPERATURE (°C)	27.0	27.0	N/S	27.0	N/S	27.0	27.0	27.0	27.5	27.5	27.0	27.0	N/S	27.5
pH	7.28	7.30	N/S	7.26	N/S	7.19	7.22	7.19	7.22	7.19	7.31	7.43	N/S	7.29
TURBIDITY (NTU)	0.26	0.25	N/S	0.18	N/S	0.15	0.08	0.07	0.11	0.14	0.08	0.07	N/S	0.32
CONDUCTIVITY (µmho)	637	636	N/S	568	N/S	598	593	957	987	568	683	394	N/S	569
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	190	188	N/S	172	N/S	252	250	220	216	230	248	190	N/S	220
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	248	264	N/S	260	N/S	272	264	260	276	268	268	200	N/S	250
CHLORIDES (Mg/l Cl)	67.0	70.5	N/S	51.5	N/S	67.0	67.5	197.9	165.4	59.5	81.0	27.0	N/S	67.5
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	N/S	NEG	N/S	POS	NEG	NEG	NEG	NEG	POS	NEG	N/S	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	N/S	NEG	N/S	NEG	NEG	NEG	NEG	NEG	NEG	NEG	N/S	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	223	221	N/S	223	N/S	229	213	183	226	218	224	172	N/S	201

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	62	63	64	65	66	67	68	69	70	71	72	73	74	75
DATE	01/24/19	01/24/19	01/24/19	01/24/19	01/24/19	01/24/19	01/24/19	01/24/19	03/13/19	01/24/19	N/S	01/24/19	01/24/19	01/24/19
LOCATION	D-15	D-16	D-17	D-18	D-19	D-20	D-21	D-22	D-24	D-25	D-26	D-27	D-28	EX-5
TEMPERATURE (0C)	27.0	27.0	27.0	27.5	27.5	27.5	27.5	27.5	27.5	27.5	N/S	27.5	27.5	27.0
pH	7.28	7.42	7.37	7.29	7.34	7.34	7.36	7.40	7.94	7.45	N/S	7.41	7.36	7.49
TURBIDITY (NTU)	0.09	0.08	0.06	0.07	0.06	0.10	0.16	0.07	0.18	0.06	N/S	0.09	0.10	0.07
CONDUCTIVITY (µmho)	659	656	479	640	580	616	581	422	628	504	N/S	412	551	567
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	230	236	230	228	204	212	208	208	208	196	N/S	200	216	248
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	260	264	250	264	230	244	240	228	232	208	N/S	220	232	270
CHLORIDES (Mg/l Cl)	79.0	86.5	28.0	73.0	92.0	71.0	75.0	21.5	52.5	59.5	N/S	20.0	60.5	58.0
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	NEG	NEG	N/S	POS	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	N/S	POS	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	219	210	218	213	186	200	201	199	205	172	N/S	188	198	222

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	76	77	78	79	80	81	82	83	84	85	86	87	88	89
DATE	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19
LOCATION	Y-1	Y-2	Y-3	Y-4A	Y-5	Y-6	Y-7	Y-9	Y-10	Y-12	Y-14	Y-15	Y-16	Y-17
TEMPERATURE (°C)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.5	27.5	27.5	27.5	27.0	27.5	27.0
pH	7.11	7.10	7.12	7.06	7.09	7.10	7.07	7.14	7.10	7.26	7.21	7.34	7.25	7.22
TURBIDITY (NTU)	0.07	0.09	0.43	0.07	0.07	0.14	0.08	0.11	0.15	0.08	0.07	0.16	0.15	0.09
CONDUCTIVITY (µmho)	497	516	492	536	644	492	572	554	567	590	631	365	555	502
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	252	232	244	232	236	244	270	270	220	228	236	172	236	248
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	264	256	268	268	260	256	290	290	248	250	252	184	268	270
CHLORIDES (Mg/l Cl)	24.0	22.0	25.0	31.5	77.5	28.0	25.0	24.5	47.5	62.5	69.0	12.5	36.5	21.0
TOTAL COLIFORM (cfu/100mL)	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	NEG	NEG	POS	POS	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	226	234	235	238	219	220	257	254	218	220	219	163	244	248

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	90	91	92	93	94	95	96		97	98	99			
DATE	01/31/19	N/S	01/31/19	01/31/19	01/31/19	01/31/19	01/31/19		02/20/19	02/20/19	02/20/19			
LOCATION	Y-18	Y-19	Y-20	Y-21A	Y-22	Y-23	GH-501		FENA	SRSP	UGUM			
TEMPERATURE (0C)	27.0	N/S	27.0	27.5	27.5	27.0	27.5		27.5	26.5	27.0			
pH	7.22	N/S	7.26	7.16	7.25	7.26	7.17		7.76	7.38	7.75			
TURBIDITY (NTU)	0.07	N/S	0.07	0.09	0.10	0.08	0.08		0.08	0.10	0.12			
CONDUCTIVITY (µmho)	478	N/S	501	566	465	510	747		268	390	149			
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	212	N/S	230	232	224	248	240		90	192	26			
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	230	N/S	236	272	236	272	268		106	202	52			
CHLORIDES (Mg/l Cl <sup>-</sup> )	34.5	N/S	33.0	42.0	22.0	24.5	108.5		45.0	26.0	18.5			
TOTAL COLIFORM (cfu/100mL)	NEG	N/S	NEG	NEG	NEG	NEG	POS		NEG	POS	NEG			
FECAL COLIFORM (cfu/100mL)	NEG	N/S	NEG	NEG	NEG	NEG	NEG		NEG	NEG	NEG			
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	203	N/S	200	244	215	246	210		106	191	56			

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	100	101	102	103	104	105	106	107	108	109	110	111	112	113
DATE	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19
LOCATION	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13	F-15
TEMPERATURE (°C)	27.0	27.0	27.0	26.5	27.5	27.5	27.5	27.5	27.5	27.0	27.0	27.5	27.5	27.5
pH	6.99	7.13	7.14	7.09	7.09	6.92	7.17	7.20	7.06	6.93	6.97	7.27	7.05	7.30
TURBIDITY (NTU)	0.08	0.51	0.06	0.06	0.14	0.09	0.18	0.08	0.07	0.08	0.10	0.12	0.30	0.25
CONDUCTIVITY (µmho)	701	770	764	819	645	1200	628	476	584	1114	747	451	1184	587
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	200	210	212	234	208	212	190	210	210	208	208	202	218	204
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	224	248	244	260	228	278	216	226	226	272	238	214	286	228
CHLORIDES (Mg/l Cl)	114.5	121.5	117.5	138.9	86.0	258.4	79.5	45.5	69.0	243.9	106.5	38.5	241.4	74.0
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	POS	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	184	197	197	212	192	188	176	200	196	192	195	195	195	199

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	114	115	116	117	118	119	120	121						
DATE	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19	02/21/19						
LOCATION	F-16	F-17	F-18	F-19	F-20	HGC-2	AG-1	AG-2						
TEMPERATURE (0C)	27.5	27.5	27.5	27.0	27.0	27.0	27.0	27.0						
pH	7.30	7.34	7.28	7.01	7.06	7.34	7.24	7.33						
TURBIDITY (NTU)	0.07	0.11	0.07	0.12	0.08	0.07	0.12	0.10						
CONDUCTIVITY (µmho)	455	421	427	1172	1247	421	518	433						
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	210	198	200	218	226	192	206	194						
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	216	208	210	290	288	202	224	210						
CHLORIDES (Mg/l Cl <sup>-</sup> )	40.0	38.5	35.0	234.9	262.9	29.5	47.5	32.0						
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	POS	POS	NEG	NEG						
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG						
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	201	193	194	191	194	194	202	194						

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P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
1st Quarter 2019**

SAMPLE NO.	122	123	124	125									
DATE	02/20/19	02/20/19	N/S	02/20/19									
LOCATION	GIAA-1	GIAA-2	GIAA-3	TUMON MAUI									
TEMPERATURE (°C)	28.0	28.0	N/S	28.0									
pH	7.23	7.22	N/S	7.18									
TURBIDITY (NTU)	0.06	0.05	N/S	0.08									
CONDUCTIVITY (µmho)	538	474	N/S	700									
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	192	190	N/S	218									
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	230	212	N/S	254									
CHLORIDES (Mg/l Cl <sup>-</sup> )	59.5	47.5	N/S	90.0									
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	N/S	POS									
FECAL COLIFORM (cfu/100mL)	NEG	NEG	N/S	NEG									
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	206	194	N/S	208									

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER 22<sup>ND</sup> ED.

REMARKS: \_\_\_\_\_  
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N/S = NO SAMPLE COLLECTED  
 POS = POSITIVE  
 NEG= NEGATIVE

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P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
DATE	04/04/19	N/S	04/04/19	04/03/19	04/04/19	04/04/19	N/S	04/03/19	04/03/19	04/03/19	04/03/19	04/03/19	04/03/19	04/03/19
LOCATION	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10	A-12	A-13	A-14	A-15
TEMPERATURE (°C)	28.0	N/S	28.0	27.5	28.0	28.0	N/S	27.5	27.5	27.5	28.0	28.0	27.5	27.5
pH	7.12	N/S	7.13	7.02	7.13	7.08	N/S	7.01	7.41	7.34	7.12	7.12	7.01	7.89
TURBIDITY (NTU)	0.14	N/S	0.08	0.08	0.07	0.07	N/S	0.16	0.19	0.11	0.07	0.09	0.25	0.19
CONDUCTIVITY (µmho)	568	N/S	559	875	547	603	N/S	578	1352	1821	605	2130	1176	967
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	266	N/S	266	324	252	286	N/S	276	352	384	336	274	334	252
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	286	N/S	268	346	254	314	N/S	292	412	502	448	306	372	312
CHLORIDES (Mg/l Cl)	33.0	N/S	28.5	103.0	36.0	29.5	N/S	26.0	248.4	404.8	20.0	490.3	187.9	158.9
TOTAL COLIFORM (cfu/100mL)	POS	N/S	NEG	NEG	NEG	POS	N/S	NEG	NEG	NEG	POS	NEG	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	N/S	NEG	NEG	NEG	NEG	N/S	NEG	NEG	NEG	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	288	N/S	291	313	268	292	N/S	287	330	318	315	328	330	265

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	15	16	17	18	19	20	21	22	23	24	25	26	27
DATE	04/03/19	06/27/19	04/03/19	04/03/19	N/S	N/S	N/S	N/S	N/S	04/04/19	04/04/19	04/04/19	04/03/19
LOCATION	A-17	A-18	A-19	A-21	A-23	A-25	A-26	A-28	A-29	A-30	A-31	A-32	NAS-1
TEMPERATURE (0C)	28.0	27.0	28.0	28.0	N/S	N/S	N/S	N/S	N/S	28.0	28.0	28.0	27.5
pH	7.36	7.14	7.21	7.26	N/S	N/S	N/S	N/S	N/S	7.03	7.08	7.08	7.39
TURBIDITY (NTU)	0.07	0.10	0.18	0.17	N/S	N/S	N/S	N/S	N/S	0.06	0.10	0.14	0.07
CONDUCTIVITY (µmho)	1049	586	1902	1615	N/S	N/S	N/S	N/S	N/S	749	585	536	739
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	208	296	320	280	N/S	N/S	N/S	N/S	N/S	260	244	236	232
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	272	310	434	348	N/S	N/S	N/S	N/S	N/S	288	272	254	264
CHLORIDES (Mg/l Cl)	207.9	22.5	434.8	354.4	N/S	N/S	N/S	N/S	N/S	86.5	37.5	38.0	105.0
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	POS	N/S	N/S	N/S	N/S	N/S	NEG	POS	POS	POS
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	N/S	N/S	N/S	N/S	N/S	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	225	313	316	275	N/S	N/S	N/S	N/S	N/S	275	261	253	236

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	28	29	30	31	32	33	34	35	36	37	38	39	40	41
DATE	04/11/19	04/11/19	04/11/19	04/11/19	04/11/19	04/11/19	04/11/19	04/11/19	04/11/19	04/11/19	N/S	04/11/19	04/11/19	04/11/19
LOCATION	M-1	M-2	M-3	M-4	M-5	M-6	M-7	M-8	M-9	M-12	M-14	M-15	M-17A	M-17B
TEMPERATURE (°C)	28.0	27.5	27.5	27.5	28.0	27.0	27.0	27.5	28.0	28.0	N/S	28.0	27.0	27.0
pH	7.28	7.30	7.23	7.19	7.15	6.99	7.03	7.21	7.22	7.11	N/S	7.19	7.12	7.05
TURBIDITY (NTU)	0.26	0.33	0.16	0.09	0.12	0.07	0.07	0.14	0.11	0.11	N/S	0.16	0.08	0.07
CONDUCTIVITY (µmho)	619	576	469	466	549	665	537	424	851	670	N/S	505	644	598
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	174	170	172	186	210	212	212	152	156	220	N/S	216	222	230
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	236	228	226	220	244	236	232	202	254	244	N/S	236	252	254
CHLORIDES (Mg/l Cl <sup>-</sup> )	81.5	68.0	33.5	42.5	51.5	98.0	51.5	29.0	159.9	95.0	N/S	37.5	79.0	58.0
TOTAL COLIFORM (cfu/100mL)	POS	POS	NEG	POS	NEG	NEG	NEG	NEG	NEG	NEG	N/S	POS	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	N/S	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	198	197	197	196	219	208	212	181	185	212	N/S	204	230	232

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER 22<sup>ND</sup> ED.

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P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS**

**2nd Quarter 2019**

SAMPLE NO.	42	43	44	45	46	47								
DATE	04/11/19	04/11/19	04/11/19	04/11/19	04/11/19	04/11/19								
LOCATION	M-18	M-20A	M-21	M-23	EX-11	H-1								
TEMPERATURE (0C)	28.0	27.0	27.0	27.5	27.5	27.0								
pH	7.09	7.07	7.09	7.18	7.23	7.04								
TURBIDITY (NTU)	0.09	0.12	0.10	0.07	0.09	0.11								
CONDUCTIVITY (µmho)	565	622	730	476	568	883								
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	210	216	222	194	170	220								
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	232	248	270	212	244	268								
CHLORIDES (Mg/l Cl')	64.0	77.5	90.0	45.5	60.5	153.4								
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG								
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG								
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	206	225	234	193	203	216								

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER 22<sup>ND</sup> ED.

REMARKS:

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	48	49	50	51	52	53	54	55	56	57	58	59	60	61
DATE	04/18/19	04/18/19	N/S	04/18/19	N/S	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	N/S	04/18/19
LOCATION	D-1	D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11	D-12	D-13	D-14
TEMPERATURE (°C)	27.5	27.0	N/S	27.5	N/S	27.0	27.0	27.0	27.5	27.0	27.5	27.0	N/S	27.5
pH	7.20	7.23	N/S	7.28	N/S	7.22	6.97	6.99	7.39	7.38	7.24	7.61	N/S	6.65
TURBIDITY (NTU)	0.08	0.11	N/S	0.10	N/S	0.08	0.07	0.16	0.24	0.12	0.10	0.20	N/S	0.46
CONDUCTIVITY (µmho)	632	634	N/S	578	N/S	604	600	952	1073	580	687	395	N/S	577
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	202	208	N/S	206	N/S	226	216	200	224	212	220	174	N/S	210
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	256	248	N/S	250	N/S	252	242	254	296	246	256	188	N/S	236
CHLORIDES (Mg/l Cl)	75.0	76.0	N/S	54.5	N/S	67.0	73.5	204.4	203.4	59.5	88.0	29.0	N/S	68.0
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	N/S	NEG	N/S	POS	NEG	NEG	POS	NEG	POS	NEG	N/S	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	N/S	NEG	N/S	POS	NEG	NEG	NEG	NEG	NEG	NEG	N/S	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	221	224	N/S	226	N/S	230	215	181	227	219	225	174	N/S	206

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	62	63	64	65	66	67	68	69	70	71	72	73	74	75
DATE	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19	04/18/19
LOCATION	D-15	D-16	D-17	D-18	D-19	D-20	D-21	D-22	D-24	D-25	D-26	D-27	D-28	EX-5
TEMPERATURE (0C)	27.5	27.5	27.5	27.5	28.0	28.0	28.0	28.0	27.5	27.5	27.5	27.5	28.0	27.0
pH	6.63	7.41	7.53	7.27	7.23	7.17	7.31	7.38	7.27	7.32	7.19	7.46	7.21	7.37
TURBIDITY (NTU)	0.11	0.10	0.08	0.07	0.12	0.10	0.11	0.07	0.66	0.10	0.09	0.08	0.06	0.08
CONDUCTIVITY (µmho)	661	647	486	646	588	605	583	426	565	459	896	410	558	570
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	200	218	220	226	192	202	204	206	222	178	200	190	192	212
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	252	250	230	250	210	232	224	214	240	188	250	214	216	248
CHLORIDES (Mg/l Cl)	82.0	88.0	31.5	81.5	82.0	76.0	70.5	19.0	57.0	45.5	166.4	28.5	62.0	52.5
TOTAL COLIFORM (cfu/100mL)	POS	NEG	NEG	NEG	POS	NEG	NEG	NEG	NEG	NEG	POS	NEG	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	215	210	217	211	182	196	201	197	203	169	182	183	198	224

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	76	77	78	79	80	81	82	83	84	85	86	87	88	89
DATE	04/25/19	04/25/19	04/25/19	04/25/19	04/25/19	04/25/19	04/25/19	N/S	04/25/19	04/25/19	04/25/19	04/25/19	04/25/19	04/25/19
LOCATION	Y-1	Y-2	Y-3	Y-4A	Y-5	Y-6	Y-7	Y-9	Y-10	Y-12	Y-14	Y-15	Y-16	Y-17
TEMPERATURE (°C)	28.0	27.0	28.0	27.0	27.5	27.5	28.0	N/S	27.0	27.0	27.0	27.5	27.0	27.5
pH	7.19	7.23	7.33	7.68	7.32	7.25	7.20	N/S	7.26	7.29	7.57	7.63	7.42	7.26
TURBIDITY (NTU)	0.07	0.11	0.10	0.30	0.17	0.06	0.06	N/S	0.09	0.08	0.10	0.08	0.16	0.07
CONDUCTIVITY (µmho)	498	513	494	613	642	488	560	N/S	572	595	598	367	547	495
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	222	222	234	220	222	216	260	N/S	210	206	220	166	212	238
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	228	228	250	248	242	240	290	N/S	238	248	246	180	260	256
CHLORIDES (Mg/l Cl <sup>-</sup> )	29.5	28.0	27.5	68.5	79.5	30.5	36.5	N/S	59.5	67.0	69.5	23.5	47.0	24.0
TOTAL COLIFORM (cfu/100mL)	POS	POS	NEG	NEG	POS	NEG	NEG	N/S	NEG	POS	NEG	POS	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	POS	NEG	NEG	NEG	NEG	NEG	N/S	NEG	NEG	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	267	271	284	259	257	258	302	N/S	254	258	255	192	283	282

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	90	91	92	93	94	95	96							
DATE	04/25/19	N/S	04/25/19	04/25/19	04/25/19	04/25/19	04/25/19							
LOCATION	Y-18	Y-19	Y-20	Y-21A	Y-22	Y-23	GH-501							
TEMPERATURE (0C)	27.0	N/S	27.0	27.0	27.0	27.5	28.0							
pH	7.43	N/S	7.40	7.38	7.28	7.24	7.31							
TURBIDITY (NTU)	0.08	N/S	0.07	0.07	0.08	0.16	0.15							
CONDUCTIVITY (µmho)	475	N/S	500	557	461	514	737							
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	196	N/S	186	212	210	250	212							
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	222	N/S	222	266	224	276	254							
CHLORIDES (Mg/l Cl <sup>-</sup> )	38.5	N/S	46.0	64.5	22.0	23.0	113.5							
TOTAL COLIFORM (cfu/100mL)	NEG	N/S	NEG	NEG	NEG	NEG	POS							
FECAL COLIFORM (cfu/100mL)	NEG	N/S	NEG	NEG	NEG	NEG	NEG							
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	236	N/S	241	283	250	291	258							

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	97	98	99	100	101	102	103	104	105	106	107	108	109	110
DATE	06/27/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19	04/29/19
LOCATION	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13	F-15
TEMPERATURE (°C)	27.5	27.5	27.5	27.0	27.5	27.5	27.0	27.5	27.0	27.5	27.5	27.5	27.5	27.5
pH	7.24	7.60	7.49	7.41	7.44	7.28	7.80	7.32	7.48	7.97	7.60	7.35	7.65	7.53
TURBIDITY (NTU)	0.10	0.07	0.10	0.08	0.10	0.08	0.08	0.07	0.20	0.09	0.11	0.07	0.08	0.14
CONDUCTIVITY (µmho)	687	775	744	823	632	1160	616	477	527	1110	736	445	1148	562
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	200	196	196	236	228	224	200	210	208	228	224	210	240	208
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	232	264	250	270	248	290	228	228	232	272	264	224	288	236
CHLORIDES (Mg/l Cl <sup>-</sup> )	114.5	127.9	126.9	143.4	93.0	258.9	93.5	42.0	54.5	229.9	116.0	28.0	220.4	64.5
TOTAL COLIFORM (cfu/100mL)	NEG	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	NEG	POS	NEG	NEG
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	199	236	235	252	231	229	210	243	236	227	232	234	233	235

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	111	112	113	114	115	116	117	118						
DATE	04/29/19	04/29/19	04/29/19	N/S	04/29/19	04/29/19	04/29/19	04/29/19						
LOCATION	F-16	F-17	F-18	F-19	F-20	HGC-2	AG-1	AG-2						
TEMPERATURE (0C)	27.5	27.5	27.5	N/S	27.0	27.0	27.5	27.5						
pH	7.46	7.45	7.43	N/S	7.44	7.85	7.53	7.50						
TURBIDITY (NTU)	0.09	0.09	0.08	N/S	0.10	0.07	0.22	0.06						
CONDUCTIVITY (µmho)	450	421	428	N/S	1191	413	527	429						
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	210	208	204	N/S	236	188	216	204						
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	230	220	228	N/S	290	220	224	224						
CHLORIDES (Mg/l Cl)	32.0	22.5	34.5	N/S	261.4	24.5	64.5	34.5						
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	N/S	NEG	NEG	POS	NEG						
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	N/S	NEG	NEG	NEG	NEG						
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	240	233	230	N/S	234	231	244	231						

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

REMARKS:

N/S = NO SAMPLE COLLECTED

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NEG = NEGATIVE

CERTIFIED BY: \_\_\_\_\_





**GUAM WATERWORKS AUTHORITY**

P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	119	120	121	122										
DATE	04/30/19	04/30/19	01/27/00	04/30/19										
LOCATION	GIAA-1	GIAA-2	GIAA-3	TUMON MAUI										
TEMPERATURE (°C)	27.0	27.0	N/S	27.0										
pH	7.68	7.42	N/S	7.39										
TURBIDITY (NTU)	0.07	0.09	N/S	0.21										
CONDUCTIVITY (µmho)	498	532	N/S	694										
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	208	216	N/S	224										
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	236	230	N/S	268										
CHLORIDES (Mg/l Cl <sup>-</sup> )	54.5	70.0	N/S	105.0										
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	N/S	POS										
FECAL COLIFORM (cfu/100mL)	NEG	NEG	N/S	NEG										
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	251	243	N/S	251										

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER 22<sup>ND</sup> ED.

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P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.	123	124	125	126										
DATE	05/01/19	05/01/19	05/01/19	N/S										
LOCATION	UGUM	FENA	SANTA RITA SPRING	ASAN										
TEMPERATURE (°C)	30.0	28.0	27.0	N/S										
pH	7.86	7.91	7.45	N/S										
TURBIDITY (NTU)	0.19	0.15	0.10	N/S										
CONDUCTIVITY (µmho)	151	267	381	N/S										
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	30	90	190	N/S										
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	60	120	216	N/S										
CHLORIDES (Mg/L Cl <sup>-</sup> )	14.5	37.5	29.5	N/S										
TOTAL COLIFORM (cfu/100mL)	NEG	NEG	POS	N/S										
FECAL COLIFORM (cfu/100mL)	NEG	NEG	NEG	N/S										
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	70	126	230	N/S										

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

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CERTIFIED BY: \_\_\_\_\_



P.O. BX. 3010 AGANA GU. 96910

**QUARTERLY CHEMICAL DEEPWELL ANALYSIS  
2nd Quarter 2019**

SAMPLE NO.														
DATE	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
LOCATION														
TEMPERATURE (0C)	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
pH	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
TURBIDITY (NTU)	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
CONDUCTIVITY (µmho)	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
CALCIUM HARDNESS (mg/L CaCO <sub>3</sub> )	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
TOTAL HARDNESS (mg/L CaCO <sub>3</sub> )	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
CHLORIDES (Mg/l Cl <sup>-</sup> )	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
TOTAL COLIFORM (cfu/100mL)	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
FECAL COLIFORM (cfu/100mL)	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
TOTAL ALKALINITY (mg/L CaCO <sub>3</sub> )	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S

ANALYZED IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. 22<sup>ND</sup> ED.

REMARKS:

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