

Appendix 1L

Ugum Water Treatment Plant				
Detailed SCADA Assessment				
Ref #	Water Treatment Plant	Average Rating	System Rating	Equipment Description
1	Ugum Water Treatment Plant	1.86		
2	Control Room		1	Leopold Control Console 4500 & PLC
3			1	Leopold Control Console 4600 & PLC
4			1	Leopold Control Console 4700 & PLC
5			1	Leopold Control Console 4800 & PLC
6			2	Air Scour Control System (3 of 4 systems)
7			1	North PLC (Inside MCC Cabinet)
8			1	South PLC (Inside MCC cabinet)
9			3	Motor Control Center (in general)
10			5	Hach Turbidity Meters (install in progress)
11			1	Motorola Intrack 2000 Radio
12			1	Reservoir Level Meter
13			1	Raw Water Flow Meter
14			1	Alarm Annunciator Panel
15	Influent Channels		2	Supernatent Mixing Motor
16			2	Flocculation Mixing Motor Controls (8)
17			1	Sand Filter Level Sensor # 1
18			1	Sand Filter Level Sensor # 2
19			1	Sand Filter Level Sensor # 3
20			1	Sand Filter Level Sensor # 4
21	Pump Gallery		0	Leopold Valve Control Station # 1
22			0	Leopold Valve Control Station # 2
23			0	Leopold Valve Control Station # 2
24			0	Leopold Valve Control Station # 4
25			1	Storage Tank Turbidity Meter
26			1	Leopold Backwash Rate of Flow Control
27			1	Backwash Tank Level Sensor
28			1	Backwash Flow Rate (pressure transmitter)
29			1	Effluent Rate of Flow Control
30			1	Booster Pump Pressure Transmitter
31			3	Finished Water Wet Well Level Sensor
32			1	Turbidity Meter # 1 (old)
33			1	Turbidity Meter # 2 (old)
34			1	Turbidity Meter # 3 (old)
35			1	Turbidity Meter # 4 (old)
36			4	Turbidity Meter # 1 (new)
37			4	Turbidity Meter # 2 (new)
38			4	Turbidity Meter # 3 (new)
39			4	Turbidity Meter # 4 (new)
40			1	Recording Charts (4)
41	Sludge Thickeners & Tanks		0	Thickner Collector High Torque
42			0	Sludge Transfer Pump # 1 Pressure switch
43			0	Sludge Transfer Pump # 1 Flow switch
44			0	Sludge Transfer Pump # 2 Pressure switch
45			0	Sludge Transfer Pump # 2 Flow switch
46			1	Thickened Sludge Pump # 1 Pressure sw.
47			1	Thickened Sludge Pump # 2 Pressure sw.
48			1	Sludge Collector # 1 Controls
49			1	Sludge Collector # 2 Controls
50			1	Sludge Collector # 3 Controls
51			1	Sludge Collector # 4 Controls
52			0	Sludge Tank Level Transmitter

Ugum Water Treatment Plant				
Detailed SCADA Assessment - Continued				
Ref #	Water Treatment Plant	Average Rating	System Rating	Equipment Description
53	Centrifuge		1	Alum/Sludge Centrifuge Control Panel
54			1	Sludge Feed Pump # 1 Speed Control
55			1	Sludge Feed Pump # 2 Speed Control
56			1	Centrifuge Bearing Temperature Sensor # 1
57			1	Centrifuge Bearing Temperature Sensor # 2
58			1	Centrifuge Bearing Lube Timer
59			1	Centrifuge Hydraulic Pump Pressure
60	Mixing Room		2	Alum Solution Mixer # 1
61			0	Alum Solution Mixer # 2
62			0	Alum Solution Mixer # 3
63			1	P.A.C. Metering Pump # 1
64			0	P.A.C. Metering Pump # 2
65			1	Fluoride Feed Control
66			1	Water Softner (small standalone unit)
67	Chlorine Room		2	Chlorine Leak Detection
68			1	Loss of Chlorine Vacuum
69			1	Chlorine Feed Control System
70	Air Compressor/Blower Room		3	Air Compressor Mercoid Switch
71			1	Differential Pressure transmitter
72			1	Leopold Air Scour Control Station
73	Booster Pump Station		1	Booster Pump Control Panel
74			1	Booster Pump Station Output Pressure
75			1	Mercoid Pressure Switch # 1
76			1	Mercoid Pressure Switch # 1
76			2	Water Booster Pump # 1
77			1	Water Booster Pump # 2
78			0	Water Booster Pump # 3
77	2.0 MG Reservoir		1	Reservoir High Level
79			1	Reservoir High High Level
80			1	Cathodic Protection
81	Generator		3	Generator Control Panel
82			3	Generator Battery Float Charger
			101	Total automated control system points
	Automated system average rating:		1.217	
	Automated system weight:	50%	0.608	Weighted automated control system points
	Manual system rating:		2.5	Total manual control system points
	Manual system weight:	50%	1.25	Weighted manual control system points
	Overall Station Rating (0 - 4):		1.86	

Wastewater Treatment Plants	
SCADA Assessment Summary	
Wastewater Pump Stations	Station Rating
Agana Wastewater Treatment Plant	1.59
Agat Wastewater Treatment Plant	2.33
Baza Gardens Wastewater Treatment Plant	1.90
Inarajan Wastewater Treatment Plant	1.43
Northern District Treatment Plant	1.61
Pago Socio Wastewater Treatment Plant	1.75
Umatac / Merizo Wastewater Treatment Plant	1.78
Average Rating:	1.77

Agana Wastewater Treatment Plant				
Detailed SCADA Assessment				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
1	Agana Wastewater Treatment Plant	1.59		
2	Operations Building		2	Motor Control Centers
3			1	Main Control Panels
4			1	Annunciators
5			0	Drum Controllers
6			1	Relay Control Interlocks
7			0	Recording Charts
8			1	SCADA Telemetry
9	Maintenance Shop		1	Generator controls
10	GWA Generator Building		3	Generator controls
11	Influent Channel		0	Flow Transmitter
12	Clarifiers		2	Collector Drive Motor # 1 controls
13			2	Collector Drive Motor # 2 controls
14			1	Collector Drive Motor # 3 controls
15			1	Collector Drive Motor # 4 controls
16	Pump Gallery		2	Chopper Sludge Pump # 1 controls
17			2	Chopper Sludge Pump # 2 controls
18			2	Chopper Sludge Pump # 3 controls
19			0	Chopper Sludge Pump # 4 controls
20			1	Scum Pump controls
21			2	Scum Pump # 1 controls
22			1	Scum Pump # 2 controls
23			2	Dewatering Pump # 1 controls
24			2	Dewatering Pump # 2 controls
25			1	Chemical Feed Pump # 1 controls
26			0	Chemical Feed Pump # 2 controls
27			1	Centrifuge Feed Pump # 1 controls
28			0	Centrifuge Feed Pump # 2 controls
29	Odor Control System		0	Air Blower # 1 controls
30			0	Air Blower # 2 controls
31			0	Air Blower # 3 controls
32			0	Air Blower # 4 controls
33			0	Ozonator # 1 controls
34			0	Ozonator # 2 controls
35			0	Flow Meter
36			0	Compressor # 1 controls
37			0	Compressor # 2 controls
38	Centrifuge/Digester Building		0	Centrifuge Motor # 1 controls
39			0	Centrifuge Motor # 2 controls
40			0	Oil Pump # 1 controls
41			0	Oil Pump # 2 controls
42			0	Chemical Mixer # 1 controls
43			0	Chemical Mixer # 2 controls
44			0	Polymer Mixer controls
45			0	Screw Conveyor controls
46	Digester		2	Aerator Motor # 1 controls
47			2	Aerator Motor # 2 controls
48			0	Aerator Motor # 3 controls
49			0	Aerator Motor # 4 controls
50			0	Exhaust Blower # 1 controls
51			0	Exhaust Blower # 2 controls
52			0	Exhaust Blower # 3 controls
53			0	Exhaust Blower # 4 controls
54			0	Exhaust Blower Ozonator controls

Agana Wastewater Treatment Plant				
Detailed SCADA Assessment (continued)				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
55	Chlorination		0	Out of Service
56	Effluent Building		1	Effluent Pump # 1 controls
57			1	Effluent Pump # 2 controls
			38	Total automated control system points
	Automated system average rating:		0.679	
	Automated system weight:	50%	0.339	Weighted Automated control system points
	Manual system rating:		2.5	Total Manual control system points
	Manual system weight:	50%	1.25	Weighted Automated control system points
	Overall Station Rating (0 - 4):		1.59	

Agat Wastewater Treatment Plant				
Detailed SCADA Assessment				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
1	Agat Wastewater Treatment Plant	2.33		
2	Influent		2	High Wet Well Level
3			2	Low Wet Well Level
4			2	High Dry Well Level
5			3	Wet Well Level Transmitter
6			3	Pump # 1 controls
7			3	Pump # 2 controls
8			3	Pump Control Panel
9			0	Pump moisture detectors
10				
11	Generator		1	Generator Control Panel
12				
13	Blower Room		2	Blower # 1 controls
14			1	Blower # 2 controls
15			2	Blower # 3 controls
16				
17	Clarifier		2	Collector Drive Motor # 1 controls
18				
19	Chlorination		0	Out of service
20				
21	Communications		0	SCADA Telemetry
22				
23	Agat Wastewater Transfer Station			
24	Bar Screens		2	Bar Screen # 1
25			1	Bar Screen # 2 - out of service
26				
27	Motor Control Center Room		3	Transfer Pump # 1 controls
28			1	Transfer Pump # 2 controls
29			3	Transfer Pump # 3 controls
30			1	Transfer Pump # 4 controls
31			3	Transfer Pump # 5 controls
32			1	Pump Sequence Control Panel
33			3	Wet Well Level Detection - Bubbler System
34			1	High Wet Well Level input
35			1	Low Wet Well Level input
36				
37	Generator		2	Generator Control Panel
38			1	Generator Annunciator Panel
39			1	Fuel Leak indicator
40				
41	Communications		0	SCADA Telemetry
			50	Total automated control system points
	Automated system average rating:		1.667	
	Automated system weight: 50%		0.833	Weighted Automated control system points
	Manual system rating:		3	Total Manual control system points
	Manual system weight: 50%		1.5	Weighted Manual control system points
	Overall Station Rating (0 - 4):		2.33	

Baza Gardens Wastewater Treatment Plant				
Detailed SCADA Assessment				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
1	Baza Gardens Wastewater Treatment Plant	1.90		
2	Wet Well		0	Communitor Controls
3			1	Wet Well High Level Float Switch
4				
5	Blower Room		3	Blower # 1 controls
6			2	Blower # 2 controls
7			1	Blower # 3 controls
8				
9	Clarifier		2	Collector Drive Motor # 1 controls
10			1	Flow Meter Transmitter
11				
12	Chlorination		2	Gas Leak Detection
13				
14	Generator		1	Generator Control Panel
15				
16	Communications		0	SCADA Telemetry
17				
			13	Total automated control system points
	Automated system average rating:		1.300	
	Automated system weight: 50%		0.650	Weighted Automated control system points
	Manual system rating:		2.5	Total Manual control system points
	Manual system weight: 50%		1.25	Weighted Automated control system points
	Overall Station Rating (0 - 4):		1.90	

Inarajan Wastewater Treatment Plant				
Detailed SCADA Assessment				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
1	Inarajan Wastewater Treatment Plant	1.43		
2	Operations Building		0	High Wet Well Level - Main
3			0	High Wet Well Level - Lift Station
4			0	Flow Metering
5			0	Annunciator Panel
6			1	Lagoon # 1 Aeration Pump Controls
7			1	Lagoon # 2 Aeration Pump Controls
8			1	Lagoon # 3 Aeration Pump Controls
9			1	Lagoon # 4 Aeration Pump Controls
10				
11	Chlorination		0	Gas Leak Detection
12				
13	Generator		0	Generator Control Panel
14				
15	Communications		0	SCADA Telemetry
16				
			4	Total automated control system points
	Automated system average rating:		0.364	
	Automated system weight: 50%		0.182	Weighted Automated control system points
	Manual system rating:		2.5	Total Manual control system points
	Manual system weight: 50%		1.25	Weighted Manual control system points
	Overall Station Rating (0 - 4):		1.43	

Northern Wastewater Treatment Plant				
Detailed SCADA Assessment				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
1	Northern District Treatment Plant	1.61		
2	Headworks		0	Comminutor controls
3			0	Flow Transmitter
4			1	Air Blower # 1 controls
5			1	Air Blower # 2 controls
6			1	Screw Conveyor controls
7			0	Generator controls
8				
9	Primary Clarifier # 1		2	Collector Drive Motor controls
10				
11	Primary Clarifier # 2		1	Collector Drive Motor controls
12				
13	Pump Gallery		0	Recirculation Pump controls
14			0	Submersible Pump controls
15			1	Scum Pump # 1 controls
16			1	Scum Pump # 2 controls
17			0	Primary Sludge Grinder # 1 controls
18			0	Primary Sludge Grinder # 2 controls
19			0	Primary Sludge Grinder # 3 controls
20			0	Primary Sludge Grinder # 4 controls
21			0	Sludge Density Transmitter
22			0	Flow Transmitter
23			1	Waterseal Pump # 1 controls
24			1	Waterseal Pump # 2 controls
25			1	Waterseal Motor # 1 controls
26			1	Waterseal Motor # 2 controls
27			4	New Stainless Steel MCC
28				- not in service
29	Centrifuge/Digester Building		0	Centrifuge Machine # 1 controls
30			0	Centrifuge Machine # 2 controls
31			1	Centrate Sub. Pump # 1 controls
32			1	Centrate Sub. Pump # 2 controls
33			1	Chemical Mixer # 1 controls
34			1	Chemical Mixer # 2 controls
35			1	Chemical Feeder # 1 controls
36			1	Chemical Feeder # 2 controls
37			1	Sludge Transfer Pump # 1 controls
38			1	Sludge Transfer Pump # 2 controls
39			1	Sludge Heater controls
40			1	Gas Compress Motorized # 1 controls
41			1	Gas Compress Motorized # 2 controls
42			1	Sump High Level Float Switch
43				
44	Chlorine Building		1	Chlorine Effluent Water Pump # 1 controls
45			1	Chlorine Effluent Water Pump # 2 controls
46			0	Gas Detector controls

Northern Wastewater Treatment Plant				
Detailed SCADA Assessment (continued)				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
47	Contact Chamber		1	Scum Pump # 1 controls
48			1	Scum Pump # 2 controls
49				
50	Control Room		0	Main Control Room
51			0	SCADA Telemetry
			32	Total automated control system points
	Automated system average rating:		0.727	
	Automated system weight:	50%	0.364	Weighted Automated control system points
	Manual system rating:		2.5	Total Manual control system points
	Manual system weight:	50%	1.25	Weighted Automated control system points
	Overall Station Rating (0 - 4):		1.61	

Pago Socio Wastewater Treatment Plant				
Detailed SCADA Assessment				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
1	Pago Socio Wastewater Treatment Plant	1.75		
2			0	High Level Alarm Float Switch
3			2	Aeration Compressor # 1 Controls
4			2	Aeration Compressor # 2 Controls
5			1	Flow Metering
6				
7	Communications		0	SCADA Telemetry
8				
			5	Total automated control system points
	Automated system average rating:		1.000	
	Automated system weight:	50%	0.500	Weighted Automated control system points
	Manual system rating:		2.5	Total Manual control system points
	Manual system weight:	50%	1.25	Weighted Automated control system points
	Overall Station Rating (0 - 4):		1.75	

Umatac / Merizo Wastewater Treatment Plant				
Detailed SCADA Assessment				
Ref #	Wastewater Treatment Plant	Average Rating	System Rating	Equipment Description
1	Umatac / Merizo Wastewater Treatment Plant	1.78		
2	Umatac Merizo Pump Station # 19		2	Wet Well Level Switch (temporary)
3			0	Wet Well High Level Inputs - Float Switch
4			0	Wet Well Level Detection - Bubbler System
5			2	Pump Alternator Controls
6			2	Pump # 1 Controls
7			1	Pump # 2 Controls
8			0	Flow Meter
9			0	Recording Charts
10			3	Generator Control Panel
11			0	SCADA Telemetry System
12				
13	Pump Station # 20		2	Influent Pump # 1 Control
14			1	Influent Pump # 2 Control
15				
16	Umatac Merizo Influent Building		0	Pump Alternator Control Panel
17			0	Pump Station Annunciator
18			2	Aerator # 1 Controls
19			1	Aerator # 2 Controls
20			3	Generator Control Panel
21			0	SCADA Telemetry
22				
			19	Total automated control system points
	Automated system average rating:		1.056	
	Automated system weight:	50%	0.528	Weighted Automated control system points
	Manual system rating:		2.5	Total Manual control system points
	Manual system weight:	50%	1.25	Weighted Automated control system points
	Overall Station Rating (0 - 4):		1.78	

Water Pumping Stations SCADA Assessment Totals

Station Name	Pump Controls	Chlorination System	Pump By-Pass	SCADA RTU	Assessment Total
A-01	0.90	0.50	0.10	0.18	1.7
A-02	0.90	0.50	0.00	0.23	1.6
A-03	0.90	0.50	0.00	0.13	1.5
A-04	0.00	0.00	0.10	0.15	0.3
A-05	0.80	0.50	0.00	0.18	1.5
A-06	0.85	0.50	0.10	0.20	1.7
A-07	0.00	0.00	0.10	0.23	0.3
A-08	0.85	0.50	0.00	0.25	1.6
A-09	0.90	0.40	0.05	0.18	1.5
A-10	0.90	0.40	0.05	0.18	1.5
A-12	0.00	0.00	0.00	0.23	0.2
A-13	0.00	0.00	0.00	0.18	0.2
A-14	1.20	0.50	0.10	0.08	1.9
A-15	1.20	0.40	0.10	0.18	1.9
A-17	0.00	0.00	0.10	0.18	0.3
A-18	1.20	0.50	0.00	0.20	1.9
A-19	0.00	0.00	0.00	0.18	0.2
A-21	1.20	0.50	0.10	0.13	1.9
A-28	1.15	0.50	0.10	0.18	1.9
A-29	1.15	0.50	0.10	0.25	2.0
A-30	0.60	0.50	0.10	0.25	1.5
A-31	1.20	0.50	0.00	0.23	1.9
A-32	0.00	0.00	0.20	0.20	0.4
AG-2A	1.20	0.50	0.20	0.25	2.2
D-04	1.20	0.50	0.00	0.20	1.9
D-07	1.20	0.50	0.00	0.15	1.9
D-08	1.15	0.50	0.05	0.20	1.9
D-10	1.20	0.50	0.05	0.18	1.9
D-11	1.15	0.50	0.05	0.18	1.9
D-12	1.15	0.50	0.00	0.20	1.9
D-13	1.15	0.50	0.00	0.18	1.8
D-14	0.95	0.40	0.05	0.18	1.6
D-15	1.00	0.00	0.05	0.15	1.2
D-16	1.20	0.40	0.20	0.20	2.0
D-19	1.20	0.40	0.20	0.20	2.0
D1-D2	1.20	0.50	0.00	0.18	1.9
D-20	1.15	0.40	0.20	0.15	1.9
D-21	1.20	0.50	0.10	0.18	2.0
D-22	1.15	0.50	0.20	0.43	2.3
EX-11	1.15	0.50	0.20	0.18	2.0
F-01	0.95	0.50	0.10	0.18	1.7
F-02	1.20	0.50	0.05	0.13	1.9
F-03	1.20	0.50	0.00	0.15	1.9
F-06	1.15	0.50	0.15	0.18	2.0
F-07	1.20	0.50	0.10	0.15	2.0
F-09	1.15	0.50	0.20	0.18	2.0
F-10	1.15	0.50	0.20	0.20	2.1
F-11	1.20	0.50	0.20	0.20	2.1
F-12	1.20	0.50	0.20	0.18	2.1
F-13	1.20	0.50	0.15	0.40	2.3
F-15	1.20	0.50	0.20	0.45	2.4
F-16	1.20	0.50	0.20	0.45	2.4

F-17	1.20	0.50	0.20	0.45	2.4
F-18	1.20	0.50	0.20	0.45	2.4
HCG2	1.20	0.00	0.20	0.20	1.6
M-01	0.00	0.00	0.10	0.18	0.3
M-02	1.20	0.00	0.10	0.18	1.5
M-03	1.20	0.00	0.10	0.18	1.5
M-04	1.05	0.50	0.10	0.18	1.8
M-06	1.15	0.50	0.10	0.18	1.9
M-07	1.20	0.00	0.10	0.23	1.5
M-09	1.20	0.50	0.10	0.20	2.0
M-15	1.15	0.50	0.10	0.18	1.9
M-17-A	0.00	0.00	0.00	0.15	0.2
M-17-B	1.20	0.50	0.20	0.18	2.1
M-18	1.20	0.50	0.20	0.28	2.2
M-20-A	1.00	0.50	0.20	0.30	2.0
M-21	0.00	0.00	0.00	0.45	0.5
M-23	1.20	0.50	0.20	0.35	2.3
Y-01	1.15	0.50	0.00	0.18	1.8
Y-02	1.15	0.50	0.10	0.13	1.9
Y-05	1.15	0.50	0.20	0.15	2.0
Y-06	1.20	0.50	0.20	0.18	2.1
Y-07	0.00	0.00	0.00	0.18	0.2
Y-09	1.20	0.50	0.20	0.18	2.1
Y-10	1.00	0.50	0.20	0.28	2.0
Y-15	1.05	0.50	0.15	0.35	2.1
Y-16	1.20	0.50	0.20	0.45	2.4
Y-17	1.20	0.50	0.20	0.38	2.3
Y-21-A	1.25	0.50	0.30	0.38	2.4
Y-23	1.05	0.65	0.25	0.43	2.4

Total Avg Assessment	1.12	0.49	0.14	0.22	1.7
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Water Pumping Stations SCADA Assessment Totals

Station Name	Pump Controls	Chlorination System	Pump By-Pass	SCADA RTU	Assessment Total
A-01	0.90	0.50	0.10	0.18	1.7
A-02	0.90	0.50	0.00	0.23	1.6
A-03	0.90	0.50	0.00	0.13	1.5
A-04	0.00	0.00	0.10	0.15	0.3
A-05	0.80	0.50	0.00	0.18	1.5
A-06	0.85	0.50	0.10	0.20	1.7
A-07	0.00	0.00	0.10	0.23	0.3
A-08	0.85	0.50	0.00	0.25	1.6
A-09	0.90	0.40	0.05	0.18	1.5
A-10	0.90	0.40	0.05	0.18	1.5
A-12	0.00	0.00	0.00	0.23	0.2
A-13	0.00	0.00	0.00	0.18	0.2
A-14	1.20	0.50	0.10	0.08	1.9
A-15	1.20	0.40	0.10	0.18	1.9
A-17	0.00	0.00	0.10	0.18	0.3
A-18	1.20	0.50	0.00	0.20	1.9
A-19	0.00	0.00	0.00	0.18	0.2
A-21	1.20	0.50	0.10	0.13	1.9
A-28	1.15	0.50	0.10	0.18	1.9
A-29	1.15	0.50	0.10	0.25	2.0
A-30	0.60	0.50	0.10	0.25	1.5
A-31	1.20	0.50	0.00	0.23	1.9
A-32	0.00	0.00	0.20	0.20	0.4
AG-2A	1.20	0.50	0.20	0.25	2.2
D-04	1.20	0.50	0.00	0.20	1.9
D-07	1.20	0.50	0.00	0.15	1.9
D-08	1.15	0.50	0.05	0.20	1.9
D-10	1.20	0.50	0.05	0.18	1.9
D-11	1.15	0.50	0.05	0.18	1.9
D-12	1.15	0.50	0.00	0.20	1.9
D-13	1.15	0.50	0.00	0.18	1.8
D-14	0.95	0.40	0.05	0.18	1.6
D-15	1.00	0.00	0.05	0.15	1.2
D-16	1.20	0.40	0.20	0.20	2.0
D-19	1.20	0.40	0.20	0.20	2.0
D1-D2	1.20	0.50	0.00	0.18	1.9
D-20	1.15	0.40	0.20	0.15	1.9
D-21	1.20	0.50	0.10	0.18	2.0
D-22	1.15	0.50	0.20	0.43	2.3
EX-11	1.15	0.50	0.20	0.18	2.0
F-01	0.95	0.50	0.10	0.18	1.7
F-02	1.20	0.50	0.05	0.13	1.9
F-03	1.20	0.50	0.00	0.15	1.9
F-06	1.15	0.50	0.15	0.18	2.0
F-07	1.20	0.50	0.10	0.15	2.0
F-09	1.15	0.50	0.20	0.18	2.0
F-10	1.15	0.50	0.20	0.20	2.1
F-11	1.20	0.50	0.20	0.20	2.1
F-12	1.20	0.50	0.20	0.18	2.1
F-13	1.20	0.50	0.15	0.40	2.3
F-15	1.20	0.50	0.20	0.45	2.4
F-16	1.20	0.50	0.20	0.45	2.4

Waste Water Pumping Stations SCADA Assessment Aggregated Totals

Station Name	Pump Controls	Sump Pump	SCADA RTU	Total
AGANA MAIN	2.10	0.20	0.60	2.9
ALUPANG	1.50	0.00	0.00	1.5
ASAN	2.10	0.00	0.50	2.6
ASTUMBO 1	1.40	0.00	0.00	1.4
ASTUMBO 2	1.40	0.00	0.00	1.4
BARRIGADA	2.10	0.20	0.70	3.0
BAYSIDE EJECTOR	1.50	0.00	0.20	1.7
CABRAS ISLAND	1.40	0.30	0.05	1.8
CHALAN PAGO 3	2.10	0.00	0.00	2.1
CHALAN PAGO 5	2.10	0.00	0.00	2.1
CHALIGAN	2.10	0.20	0.00	2.3
CHAOT (NEW)	2.10	0.30	0.00	2.4
CHAOT (OLD)	1.50	0.25	0.35	2.1
COMMERCIAL PORT	1.50	0.25	0.15	1.9
DAIRY ROAD	1.50	0.00	0.30	1.8
FEMA 96	1.50	0.00	0.00	1.5
FUJITA	1.50	0.20	0.30	2.0
Hafa ADAI	1.40	0.00	0.00	1.4
HARMON	1.40	0.00	0.20	1.6
INARAJAN MAIN	1.50	0.00	0.30	1.8
LATTE HEIGHT SUBMARINE	2.10	0.00	0.00	2.1
LATTE HEIGHTS DBL TRBL	2.10	0.10	0.40	2.6
LATTE HEIGHTS PLANTATION	1.40	0.00	0.00	1.4
MACHANAO	1.40	0.20	0.00	1.6
MACHECHE	1.40	0.00	0.15	1.6
MAITE	1.40	0.00	0.25	1.7
MAMAJANAO	2.10	0.20	0.25	2.6
MANGILAO	2.10	0.20	0.40	2.7
ORDOT CHALAN PAGO	2.10	0.00	0.00	2.1
PACIFIC LATTE	1.40	0.00	0.00	1.4
PAGA CHAO	2.00	0.00	0.30	2.3
PAGO DOUBLE SHAFT	2.10	0.20	0.35	2.7
PASEO DE ORD	1.40	0.00	0.00	1.4
PGD	2.00	0.00	0.00	2.0
PITI	2.10	0.20	0.40	2.7
PS-12	1.40	0.00	0.30	1.7
PS-15	0.00	0.00	0.00	0.0
PS-17	1.40	0.00	0.30	1.7
ROUTE 16	2.10	0.25	0.30	2.7
SANTA ANA SUBDIVISION	1.40	0.00	0.00	1.4
SINAJANA	2.10	0.25	0.35	2.7
SOUTHERN LINK	1.40	0.20	0.80	2.4
SUNSET VILLA	1.30	0.00	0.20	1.5
TAI MANGILAO	2.10	0.20	0.00	2.3
TALOFOFO	1.40	0.10	0.00	1.5
YIGO	1.40	0.20	0.35	2.0
YPAO	1.40	0.20	0.30	1.9
YPAOYPAO	1.40	0.00	0.35	1.8
Avg Assessment	1.66	0.21	0.20	1.9

GWA Wastewater Pump Station SCADA Radio Data								
Name	Location	Type	Model	Serial	Addr	Fleet	Unit ID	Comments
Agana Main PS	Marine Drive	Intrac	FUF1550A	469SQS0143	7085	800305	706321	4
Alupang Cove PS	Alupang St/Camp Watkins Rd Tamuning	None	-	-	-	-	-	-
Asan PS	Marine Drive	Intrac						
Astumbo #1 PS	Route 3, Ysensong Rd, Chaian Tomates							
Astumbo #2 PS	Route 3, Ysensong Rd, Tomates							
Barrigada PS	Route 8	Intrac						
Bayside Ejector Stn	Jimmy Dee's	Intrac	F6785CSP89450	469SQE5082				
Cabras Island PS	Commercial Port Facility	Intrac	-	-				3
Casimero PS	Untaian Ct, Mongmong Roy Damian St							
Chalan Pago #3 PS	Santa Cruz Dr	None	-	-				
Chalan Pago #5 PS	Chalan Huego St	None	-	-				
Chaot PS (New)	Chaot Bridge Route 4	-	-	-				
Chaot PS (Old)	Chaot Bridge Route 4	Intrac	F6785CSP89450	469SQE5065				
Commercial Port PS	Commercial Port Facility	Intrac	-	-				3
Dairy Rd PS	Dept of Correction	Intrac						
ES #2	Across Unatac Church							
ES #3	Across Merizo Catholic Cemetary							
ES #4	Mata Ave Merizo							
ES #5	Behind Reyes Store Merizo							
ES #6	Behind Merizo Store Supermarket							
ES #7	Behind Laundromat Merizo							
Fema 96 PS	Astumbo Subdivision	None	-	-				
Flora Gardens PS	Flora Gardens Housing Area							
Fujita Pump Station	Fujita Hotel	Intrac						
Hafa Adai PS	Magof Dr, Lamonchina St, Kayan	None	-	-				
Harmon PS	Harmon Industrial Pk	Intrac						
Inarajan LS	Route 4	Intrac						
Latte Hts Dbl Trbl PS	Daisy Ln, pass Cherry Blossom Ln	Intrac	F6785CSP89450	469SQE5084				
Latte Hts Plantation PS	Atgidun St, rt to Fadang Ct, Latte Hts	Intrac						
Latte Hts Submarine PS	Dama de Noche St, Latte Hts, Mangliao							
Latte Hts Sunrise Villa PS	Carmelia Ln, Sunrise Villa Housing							
Liguan Terrace	Route 16-Harmon McDonald	Intrac						
Machanao PS	Machanao area	None						
Macheche PS	Magof Drive	Intrac	FUF1550A	469SQS1123				
Maite ES	Adjacent to Calvo's Cliff-line Area	Intrac						
Mamajanao PS	Marine Drive	Intrac						
Mangilao PS	Community Cntr	Intrac						
Mongmong/Toto Lift	Between Old Agana Pwr Plt/Manglonia							
Narmo Submarine Lift	Jose Estequolo Circle							
North Reyes St LS	Merizo							
Ordot Chalan Pago		None						
Pacific Group Dev	Las Palmas Housing	None						
Pacific Latte PS	Juan Cinto Drive, near Simon HS	None						
Pagachao LS	Nimitz Beach	Intrac						
Pago Double Shaft PS	Route 4	Intrac						
Paseo de Oro PS	Ypao Rd Tamuning next to SDA Clinic	Intrac						
Piti PS	Marine Drive	Intrac						
PS #14	Bille Bay Merizo							
PS #15	Next to Mobile Gas Station Merizo	-						
PS #16	Across Merizo Cockpit							
PS #17	West of Achang Bay Merizo	Intrac						
PS #18	East of Achang Bay Merizo							
Santa Ana Subdivision PS	Santa Ana Subdiv, NCS Dededo	-						
SD PS 11	Umatac							
SD PS 12	Btwn Umatac Village	Intrac						
SD PS 13	Toguan Bay							
SD PS 19	Beside Umatac							
SD PS 20	Behind Umatac TP							
Sinajana PS	Next to baseball field	Intrac						
Southern Link PS	Haromon-Cow Fence	-						
Sunrise Villa PS		Intrac						
Tai PS	Route 10/Route 4	None						
Talolofo PS	As Lucas St	-						
Tiyan #1 LS	Officer's Housing							
Tiyan #2 LS	Lower Sunset Blvd							
Tiyan #25 ES	Day Care Center							
Tiyan #26 LS	Between Tiyan Gym & Theater							
Toto Gardens PS	Inside Toto Gardens Housing							
Yigo PS	Borhallo Subdiv	Intrac						
Ypao PS	Ypao Bch Pk	Intrac						
Ypao Ypao PS		Intrac						
Total Columns with Data			13	13	2	2	2	4
Total "U" Columns			0	0	0	0	0	
Total "1" Columns			0	0	0	0	0	
Total "-" Columns			8	8	1	1	1	
Total Stations			71					
GUIDE: 1 = PRESENT, U = EXISTING, NOT VERIFIED					PS = Power Supply		2=Exterior Mounted	
0 = MISSING, "-" = NOT VERIFIED					4=Power to Radio/RTU		3=Cabinet Corroded	

GWA Deep Well Pump Station SCADA Radio Information

Station	Well Location	Type	Model	Serial	Addr	SW	SYS	SC	FLT	Unit	Contrl Frq
A-1	Ordot-After Chaot Bridge	Intrac	FUF1550A	469SQJ1116	4973	1	1726	D	700	0187	865.9875
A-2	Dairy Rd next to Santurary	Intrac	FUF1550A	469SQJ5604		1	1726	D	700	0175	865.9875
A-3	Ordot RT4	Intrac	FUF1550A	469SQJ5615		1	1726	D	700	016A	865.9875
A-4	Dairy Evangelista St	Intrac	FUF1550A	469SQE5108		1	1726	D	700	013D	865.9875
A-5	Afame St Sinajana	Intrac	FUF1550A	469SQJ5607		1	1726	D	700	0172	865.9875
A-6	Afame St Sinajana	Intrac	FUF1550A	469SQJ5616		1	1726	D	700	0169	865.9875
A-7	Ch Pago across Super MKT	Intrac	FUF1550A	469SQJ5619	874 / 10663						
A-8	Ch Pago across Gas Station	Intrac	FUF1550A	469SQS1132		---	---	---			
A-9	Dairy Rd back Entrance	Intrac	FUF1550A	469SQS1095	2 / 15	1					
A-10	Dairy Rd corner White St	Intrac	FUF1550A	469SQS1114		1	1726	D	700	0189	865.9875
A-12	Ordot across Bautista Church	Intrac	FUF1550A	469SQE5107	3127	1	1726	D	800303		706.7520
A-13	Dairy Rd before DOC Ent	Intrac	FUF1550A	469SQS1127	10654	1	1726	D	700	017C	865.9875
A-14	Corner Rt 10 Rt 15	Intrac	FUF1550A	469SQS1121		1	1726	D	700	0182	865.9875
A-15	Rt 10 Untalan Elem School	Intrac	FUF1550A	469SQJ5601	6406	1	1726	D	700	0178	
A-17	Rt 10 Public Health										
A-18	Dairy Rd Dept of Agriulture	Intrac	FUF1550A	469SQS1135		1	1726	D	700	0128	865.9875
A-19	Ch Pago after Stop ligh	Intrac	FUF1550A	469SQS1119		1	1726	D	700	0184	865.9875
A-21	Mangilao near Mayor Office	Intrac	FUF1550A	469SQS1084		1	1726	D	700	0188	865.9875
A-23	Rt 4 Agana after McDonald										
A-25	Rt 4 Agana after Town Hse	Intrac	-	-	-	-	-	-	-		Missing Readir
A-26	Mongmong Toto Softball Field										
A-28	Corner Leyang Manabusan	Intrac									
A-29	Agana Spring	Intrac									
A-30	Agana Spring	Intrac	FUF1550A	469STE0086		1	1726	D	700	0000	865.9875
A-31	Before Cliff Hotel Agana Hgts	Intrac	FUF1550A	469SQS1081		1	1726	D	700	01CB	865.9875
A-32	Aga Hgts across N Hospital	Intrac	FUF1550A	469SQS0141	1466	0	0	0	0	0	0.0000
D-1	Dededo Golf Course	Intrac									
D-2	Dededo Golf Course	Intrac									
D-3	Dededo Golf Course	Intrac									
D-4	Dededo Golf Course	Intrac									
D-5	Dededo Golf Course										
D-6	Dededo Golf Course										
D-7	Y-Seng Song Rd	Intrac									
D-8	Y-Seng Song Rd	Intrac	FUF1550A	469SQS1139	2159		2159		800303		706.8060
D-9	Dededo Golf Course										
D-10	Butullo St Dededo	Intrac	FUF1550A	469SQS1124			3127		800303		706.8080
D-11	Dededo Golf Course	Intrac									
D-12	Y-Seng Song Rd	Intrac									
D-13	Swamp Rd Dededo	Intrac	FUF1550A	469STE0088	3127				800303		706.8110
D-14	Bio Path Dededo	Intrac	FUF1550A	469STQ0099					800303		706.8310
D-15	Benavente Middle School	Intrac									
D-16	Sta Monica Public Health	Intrac									
D-17	Sta Monica Pipe Line										
D-18	Sta Monica Public Health										
D-19	Swamp Rd Dededo	Intrac	FUF1550A								
D-20	Swamp Rd Dededo	Intrac	FUF1550A								
D-21	Swamp Rd Dededo	Intrac	FUF1550A								
D-22	Y-Seng Song Rd	Intrac									
D-23	Y-Seng Song Rd										
D-24	Y-Seng Song Rd										
EX-5	Dededo Golf Course										
F-1	Fenegayan POL Rt 3	Intrac	FUF1550A		1726						
F-2	Fenegayan POL Rt 3	Intrac	FUF1550A								
F-3	Fenegayan POL Rt 3	Intrac	FUF1550A								
F-4	Fenegayan POL Rt 3	Intrac	FUF1550A								
F-5	Near Astumbo Commty Ctr										
F-6	Intersection Rt 3 Y-sengsong	Intrac									
F-7	NCS Pipe Rt 3	Intrac	FUF1550A								
F-8	Y-Seng Song / Balaku										
F-9	Y-Seng song Magic Store	Intrac									
F-10	NCS POL Rt 3	Intrac	FUF1550A								
F-11	NCS POL Rt 3	Intrac	FUF1550A								
F-12	Machanao To Piga	Intrac									
F-13	Bong Bong Machanao	Intrac	FUF1592A								
F-15	Corazon Machanao	Intrac	FUF1592A								
F-16	Corazon Machanao	Intrac	FUF1592A								
F-17	Corazon Machanao	Intrac	FUF1592A								
F-18	Corazon Machanao	Intrac	FUF1592A								
HG-2	Santa Ana Subdivision	Intrac	FUF1550A								
H-1	Harmon 2 Lovers Pt										
AG-1	Machanao USAF										
AG-2A	Machanao Paintball	Intrac	FUF1550A								
M-1	Latte Heights Plantation	Intrac									
M-2	Latte Heights Plantation	Intrac									
M-3	Latte Heights Plantation	Intrac									
M-4	Latte Heights Plantation	Intrac									
M-5	Lemon China St Latte Hts	Intrac									
M-6	Villa Rosario Condo	Intrac									
M-7	Butter Cup St Macheche	Intrac									
M-8	Carnation Rd Latte Hts										
M-9	Mangilao Rt 15	Intrac									
M-12	Hermon Loop Rd										
M-14	Liguan Terrace B-ball										
M-15	Lemon China St Latte Hts	Intrac									
M-17A	Back of Price Mart		FUF1550A								

GWA Deep Well Pump Station SCADA Radio Information											
Station	Well Location	Type	Model	Serial	Addr	SW	SYS	SC	FLT	Unit	Contrl Frq
M-17B	Back of Price Mart	Intrac									
M-18	Rt 15 Ilesiani Cristo	Intrac									
M-20A	Back of Price Mart	Intrac	FUF1592A								
M-21	Airport Rd next to Gas Sta	Intrac									
M-23	Carnation Ln Latte Hts	Intrac									
EX-11	Latte Heights	Intrac									
Y-1	Asardas Drive Yigo	Intrac									
Y-2	Asardas Drive Yigo	Same as Y-1									
Y-3	Beside Mayor Office Yigo										
Y-4A	Back of Ace Hardware										
Y-5	Simon Sanchez High School	Intrac									
Y-6	Simon Sanchez High School	Intrac									
Y-7	Gaynero Rd Yigo Elem Sch	Intrac									
Y-9	Gaynero Rd Yigo Elem Sch	Intrac									
Y-10	Aga Blvd Ypaopao Est	Intrac									
Y-12	Batulo St Dededo										
Y-14	Back of Ace Hardware Yigo										
Y-15	Rt 15 UPI Elem Sch Yigo	Intrac									
Y-16	Before Ace Hardware Yigo	Moscad-L	F68FFA	275SAG0106							
Y-17	Evangelista Rd Yigo	Moscad-L	F68FFA								
Y-21A	Before Ace Hardware Yigo	Moscad-L	F68FFA								
Y-23	Chelan Paharu Yigo	Moscad-L	F68FFA								
G-501	Yijo Ghura 501 Subdivision										
Palauan BPS											
Matguac BPS											
MJ-1	Malojloj										
MJ-5	Malojloj										
Yigo Elev Tnk		Intrac									
WBP-5	Brigade Booster Pump 3	Intrac									
WBP-9	Gaynero Booster PS	Intrac									
WBP-19	Pago Bay Booster										
WBP-20	Santa Rita Springs	Intrac									
WBP-21	Santa Rosa	Intrac									
WBP-25	Windward Hills Booster	Intrac									
Pale Kieran											
Truman BPS	Truman Booster	Intrac									
Nimitz Hill											

GWA Deep Well Pump Station SCADA Information								
Station	Well Location	Type	RTU	Radio	Ant	Flow TD	Flow XM	Pres TD
A-1	Ordot-After Chaot Bridge	Intrac	1	1	1	0	1	1
A-2	Dairy Rd next to Santurary	Intrac	1	1	1	0	1	1
A-3	Ordot RT4	Intrac	1	1	1	0	1	1
A-4	Dairy Evangelista St	Intrac	1	1	1	0	1	0
A-5	Afame St Sinajana	Intrac	1	1	1	1	1	1
A-6	Afame St Sinajana	Intrac	1	1	1	1	1	1
A-7	Ch Pago across Super MKT	Intrac	1	1	1	1	1	1
A-8	Ch Pago across Gas Station	Intrac	1	1	1	1	1	1
A-9	Dairy Rd back Entrance	Intrac	1	1	1	0	1	0
A-10	Dairy Rd corner White St	Intrac	1	1	1	0	1	1
A-12	Ordot across Bautista Church	Intrac	1	1	1	1	1	1
A-13	Dairy Rd before DOC Ent	Intrac	1	1	1	0	1	1
A-14	Corner Rt 10 Rt 15	Intrac	1	1	1	1	0	0
A-15	Rt 10 Untalan Elem School	Intrac	1	1	1	0	1	0
A-17	Rt 10 Public Health	Intrac	1	1	1	0	1	1
A-18	Dairy Rd Dept of Agriulture	Intrac	1	1	1	1	1	0
A-19	Ch Pago after Stop ilight	Intrac	1	1	1	0	0	0
A-21	Mangilao near Mayor Office	Intrac	1	1	1	1	1	0
A-23	Rt 4 Agana after McDonald							
A-25	Rt 4 Agana after Town Hse	Intrac	1	0	1	0	1	1
A-26	Mongmong Toto Softball Field							
A-28	Corner Layang Manabusan	Intrac	U	U	1	0	1	0
A-29	Agana Spring	Intrac	1	1	1	0	1	1
A-30	Agana Spring	Intrac	1	1	1	0	1	1
A-31	Before Cliff Hotel Agana Hgts	Intrac	1	1	1	0	1	1
A-32	Aga Hgts across N Hospital	Intrac	1	1	1	0	0	0
D-1	Dededo Golf Course	Intrac	U	U	0	0	1	0
D-2	Dededo Golf Course	Intrac	U	U	1	0	1	1
D-3	Dededo Golf Course	Intrac						
D-4	Dededo Golf Course	Intrac	1	1	1	0	1	0
D-5	Dededo Golf Course							
D-6	Dededo Golf Course							
D-7	Y-Seng Song Rd	Intrac	U	U	1	0	1	0
D-8	Y-Seng Song Rd	Intrac	1	1	1	0	1	0
D-9	Dededo Golf Course							
D-10	Butullo St Dededo	Intrac	1	1	1	0	1	1
D-11	Dededo Golf Course	Intrac	U	U	1	1	1	1
D-12	Y-Seng Song Rd	Intrac	1	1	1	1	1	1
D-13	Swamp Rd Dededo	Intrac	1	1	1	0	1	1
D-14	Bio Path Dededo	Intrac	1	1	1	0	1	1
D-15	Benavente Middle School	Intrac	U	U	U	0	1	0
D-16	Sta Monica Public Health	Intrac	U	U	U	1	1	0
D-17	Sta Monica Pipe Line							
D-18	Sta Monica Public Health							
D-19	Swamp Rd Dededo	Intrac	1	1	1	1	1	1
D-20	Swamp Rd Dededo	Intrac	1	1	1	0	1	1
D-21	Swamp Rd Dededo	Intrac	1	1	1	0	1	1
D-22	Y-Seng Song Rd	Intrac	1	1	1	0	1	1
D-23	Y-Seng Song Rd							
D-24	Y-Seng Song Rd							
EX-5	Dededo Golf Course							
F-1	Fenegayan POL Rt 3	Intrac	1	1	1	1	1	1
F-2	Fenegayan POL Rt 3	Intrac	1	1	0	0	1	0
F-3	Fenegayan POL Rt 3	Intrac	1	1	1	1	1	1
F-4	Fenegayan POL Rt 3	Intrac	1	1	1	0	1	0
F-5	Near Astumbo Commty Ctr							
F-6	Intersection Rt 3 Y-sengsong	Intrac	U	U	1	1	1	0

GWA Deep Well Pump Station SCADA Information								
Station	Well Location	Type	RTU	Radio	Ant	Flow TD	Flow XM	Pres TD
F-7	NCS Pipe Rt 3	Intrac	1	1	1	1	1	1
F-8	Y-Seng Song / Balaku							
F-9	Y-Seng song Magic Store	Intrac	1	1	1	0	1	1
F-10	NCS POL Rt 3	Intrac	1	1	1	1	1	1
F-11	NCS POL Rt 3	Intrac	1	1	1	1	1	1
F-12	Machanao To Piga	Intrac	U	U	0	0	1	0
F-13	Bong Bong Machanao	Intrac	1	1	1	1	1	0
F-15	Corazon Machanao	Intrac	1	1	1	1	1	1
F-16	Corazon Machanao	Intrac	1	1	1	0	1	1
F-17	Corazon Machanao	Intrac	1	1	1	1	1	1
F-18	Corazon Machanao	Intrac	1	1	1	1	1	1
HG-2	Santa Ana Subdivision	Intrac	1	1	1	1	1	1
H-1	Harmon 2 Lovers Pt							
AG-1	Machananao USAF							
AG-2A	Machananao Paintball	Intrac	1	1	1	1	1	1
M-1	Latte Heights Plantation	Intrac	1	1	1	1	1	1
M-2	Latte Heights Plantation	Intrac	1	1	1	1	1	0
M-3	Latte Heights Plantation	Intrac	1	1	1	0	1	1
M-4	Latte Heights Plantation	Intrac	1	1	1	0	1	1
M-5	Lemon China St Latte Hts	Intrac	1	1	1	0	1	1
M-6	Villa Rosario Condo	Intrac	U	U	1	1	1	1
M-7	Butter Cup St Macheche	Intrac	1	1	1	1	1	0
M-8	Carnation Rd Latte Hts							
M-9	Manglao Rt 15	Intrac	U	U	1	1	1	1
M-12	Harmon Loop Rd							
M-14	Liguan Terrace B-ball							
M-15	Lemon China St Latte Hts	Intrac	1	1	1	0	1	1
M-17A	Back of Price Mart	Intrac	1	1	1	0	0	0
M-17B	Back of Price Mart	Intrac	U	U	1	1	1	1
M-18	Rt 15 Iglesiasni Cristo	Intrac	1	1	1	0	1	1
M-20A	Back of Price Mart	Intrac	1	1	1	0	1	1
M-21	Airport Rd next to Gas Sta	Intrac	1	1	1	1	1	1
M-23	Carnation Ln Latte Hts	Intrac	U	U	U	1	1	1
EX-11	Latte Heights	Intrac	1	1	1	0	1	0
Y-1	Asardas Drive Yigo	Intrac	1	1	1	1	1	1
Y-2	Asardas Drive Yigo	Intrac	1	1	1	0	1	1
Y-3	Beside Mayor Office Yigo							
Y-4A	Back of Ace Hardware							
Y-5	Simon Sanchez High School	Intrac	U	U	1	1		1
Y-6	Simon Sanchez High School	Intrac	U	U	1	0	1	1
Y-7	Gayinero Rd Yigo Elem Sch	Intrac	1	1	1	0	1	0
Y-9	Gayinero Rd Yigo Elem Sch	Intrac	1	1	1	0	1	1
Y-10	Aga Blvd Ypaopao Est	Intrac	1	1	1	1	1	0
Y-12	Batulo St Dededo							
Y-14	Back of Ace Hardware Yigo							
Y-15	Rt 15 UPI Elem Sch Yigo	Intrac	1	0	1	1	1	1
Y-16	Before Ace Hardware Yigo	Moscad-L	1	1	1	0	1	1
Y-17	Evangelista Rd Yigo	Moscad-L	U	U	U	1	1	1
Y-21A	Before Ace Hardware Yigo	Moscad-L	1	1	1	1	1	1
Y-23	Chelan Paharu Yigo	Moscad-L	1	1	1	1	1	1
G-501	Yijo Ghura 501 Subdivision							
Palauan BPS								
Matguac BPS								
MJ-1	Malojloj							
MJ-5	Malojloj							
Yigo Elev Tnk		Intrac	U	U	U	0	1	1
WBP-5	Brigade Booster Pump 3	Intrac	U	U	U	1	1	1

GWA Deep Well Pump Station SCADA Information								
Station	Well Location	Type	RTU	Radio	Ant	Flow TD	Flow XM	Pres TD
WBP-9	Gayinero Booster PS	Intrac	U	U	1	0	0	0
WBP-19	Pago Bay Booster	Missing	0	0	1	0	0	1
WBP-20	Santa Rita Springs	Intrac	1	1	1	0	1	1
WBP-21	Santa Rosa	Intrac	U	U	U	0	0	1
WBP-25	Windward Hills Booster	Intrac	U	U	U	0	0	1
Pale Kieran		None						
Truman BPS	Truman Booster	Intrac	1	1	1	0	0	1
Nimitz Hill		None						
Asan Spring		None						
	1 = Present							
	2 = Located Exterior							
	3 = Corrosion							
	4 = Unit Operational							
Total Columns with Data			93	93	93	93	92	93
Total "U" Columns			21	21	8	0	0	0
Total "1" Columns			71	69	82	40	83	66
Total Stations			122					
GUIDE: 1 = PRESENT, U = EXISTING, NOT VERIFIED					HB = Hard Broke			
0 = MISSING, "-" = NOT VERIFIED								

Comments
2, 3
2, 3
2, 3, 4
2, 3
2, 3
2, 3, 4
2, 3, HB
2
2
2, 3
2, 3
2, 3
2, 3
2, 3, PS
2, 3
2, 3
2, 3
2, 3
2, 3
2, 3
2
2
2
2, 4, 5
2
HB
2, 3
2, 3
2, 3
2, 3
2, 3
2, 3
2, 3
2, 3
2, 3, 4
2
2
HB
HB
2, 3
2
2, 3
4, 5
HB
2, 3, 4
2
2, 3
2, 3
2, 3

Comments
2, 3
2, 3
2, 3
2, 3
2, 3
4, 5
4, 5
4, 5
4, 5
4, 5
2
2, 3
2, 3
2, 3
2
2, 3
2, 3, PS
2
2, 3
2, 3
2, 3
2, 3, HB
2, 3
4
4
2, 3
2
HB
2, 3
2,3, HB
2, PS
Moscad Removed
LOCKED
None
Not Verified

Comments
2, 3
Unit Missing
None
4
None
None
88
2 = Exterior Mounted
3 = Cabinet Corroded
4 = Unit Powered
5 = Unit Operational

GWA Wastewater Pump Station SCADA Data									
Name	Location	Type	RTU	Radio	Ant	Flow	Level	Comments	
New Agat P. Station	Agat	Intrac	1	1	0	0	0	Not Complete	
Agana Main PS	Marine Drive	Intrac	1	1	1				
Alupang Cove PS	Alupang St/Camp Watkins Rd Tamuning	None						None	
Asan PS	Marine Drive	Intrac	1	1	1	0	0	4, 5	
Astumbo #1 PS	Route 3,Ysensong Rd, Chaian Tomates	None						None	
Astumbo #2 PS	Route 3,Ysensong Rd, Tomates	None						None	
Barrigada PS	Route 8	Intrac	U	U	U				
Bayside Ejector Stn	Jimmy Dee's	Intrac	1	0	1			2	
Cabras Island PS	Commercial Port Facility	Intrac	0	0	0			Badly Corroded	
Casimero PS	Untaian Ct,Mongmong Roy Damian St								
Chalan Pago #3 PS	Santa Cruz Dr	None						None	
Chalan Pago #5 PS	Chalan Huego St	None						None	
Chaligan PS	Agat	None						None	
Chaot PS (New)	Chaot Bridge Route 4	None						None	
Chaot PS (Old)	Chaot Bridge Route 4	Intrac	1	1	1			No Power to RTU	
Commercial Port PS	Commercial Port Facility	Intrac	1	1	1	0	0	2, 3	
Dairy Rd PS	Dept of Correction	Intrac	U	U	1				
ES #2	Across Unatac Church								
ES #3	Across Merizo Catholic Cemetary								
ES #4	Mata Ave Merizo								
ES #5	Behind Reyes Store Merizo								
ES #6	Behind Merizo Store Supermarket								
ES #7	Behind Laundromat Merizo								
Fema 96 PS	Astumbo Subdivision	None						None	
Flora Gardens PS	Flora Gardens Housing Area	Intrac							
Fujita Pump Station	Fujita Hotel	Intrac	1	0	1			Missing P.S.	
Hafa Adai PS	Magof Dr, Lamochina St, Kayan	None						None	
Harmon PS	Harmon Industrial Pk	Intrac	U	U	1				
Inarajan LS	Route 4	Intrac	U	U	1				
Latte Hts Dbl Trbl PS	Daisy Ln, pass Cherry Blossom Ln	Intrac	U	U	1				
Latte Hts Plantation PS	Atgidun St, rt to Fadang Ct, Latte Hts	Intrac	U	U	1			2, 3	
Latte Hts Submarine PS	Dama de Noche St, Latte Hts, Mangliao	None						None	
Latte Hts Sunrise Villa PS	Carnelia Ln, Sunrise Villa Housing	None						None	
Liguan Terrace	Route 16-Harmon McDonald	Intrac	1	1	1				
Machanao PS	Machanao area	None						None	
Macheche PS	Magof Drive	Intrac	1	1	1			2, 3	
Maite ES	Adjacent to Calvo's Cliff-line Area	Intrac	U	U	1			2, 3	
Mamajanao PS	Marine Drive	Intrac	U	U	1			2, 3	
Mangilao PS	Community Cntr	Intrac	1	1	1				
Mongmong/Toto Lift	Between Old Agana Pwr Plt/Manglonia								
Narno Submarine Lift	Jose Estequolo Circle								
New Commercial Port PS	Commercial Port Facility		-	-	-	-	-	NONE	
North Reyes St LS	Merizo								
Pacific Group Dev	Las Palmas Housing		-	-	-	-		NONE	
Pacific Latte PS	Juan Cinto Drive, near Simon HS		-	-	-	-		NONE	
Pagachao LS	Nimitz Beach	Intrac	1	1	1	0	0	2	
Pago Double Shaft PS	Route 4	Intrac	1	1	U				
Paseo de Oro PS	Ypao Rd Tamuning next to SDA Clinic	Intrac	U	U	1			2	
Piti PS	Marine Drive	Intrac	1	1	1	0	0	2, 4, 5	
PS #14	Blle Bay Merizo								
PS #15	Next to Mobile Gas Station Merizo		-	-	-	-	-	NOT VERIFIED	
PS #16	Across Merizo Cockpit								
PS #17	West of Achang Bay Merizo	Intrac	U	U	U				
PS #18	East of Achang Bay Merizo								
Santa Ana Subdivision PS	Santa Ana Subdiv,NCS Dededo		-	-	-	-	-	NOT VERIFIED	
SD PS 11	Umatac								
SD PS 12	Btwn Umatac Village	Intrac	U	U	U				
SD PS 13	Toguan Bay								
SD PS 19	Beside Umatac								
SD PS 20	Behind Umatac TP								
Sinajana PS	Next to baseball field	Intrac	1	1	1			NOT VERIFIED	
Southern Link PS	Haromon-Cow Fence		-	-	-	-		NOT VERIFIED	
Tai PS	Route 10/Route 4	None						NONE	
Talolofo PS	As Lucas St		-	-	-	-	-	NOT VERIFIED	
Tiyan #1 LS	Officer's Housing								
Tiyan #2 LS	Lower Sunset Blvd								

