

# COPY

**MARIANAS DRILLING, INC.**  
Environmental & Water Well Drillers  
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YIELD AND DRAWDOWN TEST REPORT  
AAFB MW-6A

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LOCATION: COORDINATES:	Unknown	STATIC WATER LEVEL	392.43 feet
	Unknown		
SURFACE ELEVATION:	Unknown	RATE OF PUMPING:	500 GPM
DEPTH OF WELL:	430.0 feet	SIZE OF WEIR(ORIFICE):	4 inches
PUMP SIZE AND MAKE:	7-Stage	SIZE OF EDUCATOR PIPE:	4 inches
DRIVER:	75 HP	METHOD OF MEASURING WATER LEVEL:	
DATE PUMPING STARTED:	3/16/2010	Electronic Water Level Meter	
DATE PUMPING FINISHED:	3/17/2010	AVERAGE DRAWDOWN:	0.39 feet
PUMP INTAKE SETTING:	-18.5 feet	TIME FOR STABILIZATION:	1 hour
DEPTH TO TOP OF SCREEN:	n/a	TIME FOR 90% RECOVERY:	5 minutes
SIZE SCREEN OPENING(S):	n/a	TIME FOR 100% RECOVERY:	40 minutes
		REMARKS (SUCH AS QUALITY OF	
		WATER MAXIMUM DRAWDOWN	
		PERSONNEL):	
AMOUNT OF SAND 1ST HR OF PUMPING		Water samples taken to WERI for	
AMOUNT OF SAND 2ND HR OF PUMPING		chloride testing	
NUMBER AND LOCATION-OBSERVATION WELLS:			

CONTRACTOR MARIANAS DRILLING, INC.

TYPE OF TEST 24 hr. pump test  
MEASURING POINT: Top of Well Head

**RECEIVED**  
MAR 30 2010  
HK Gumbel  
GUAM EPA

## YIELD AND DRAWDOWN TEST REPORT

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Date: 3/16/2010

TIME (actual)	Time Since Pumping Start/Stop (min)	Water Level Reading (ft)	Drawdown/ Recovery (ft)	Pumping Rate (gpm)	Conducti- vity ( $\mu$ S)	Chloride (mg/l)	Remarks
4-hr. Step-Drawdown Test							
12:00PM	0	392.43			688	85.5	Sample # 1
	1	392.65	0.22				Adjust gate valve to
	2	392.65	0.22				350 GPM
	3	392.66	0.23				
	4	392.66	0.23				
	5	392.66	0.23				
	6	392.63	0.20				
	7	392.60	0.17				
	8	392.62	0.19	350			
	9	392.63	0.20	350			
	10	392.63	0.20	350			
	15	392.63	0.20	350			
	20	392.63	0.20	350			
	25	392.63	0.20	350			
	30	392.63	0.20	350			
	35	392.63	0.20	350			
	40	392.63	0.20	350			
	45	392.63	0.20	350			
	50	392.64	0.21	350			
	55	392.64	0.21	350			
1:00PM	1 HR	392.64	0.21	350	663	84.2	Sample # 2
	1	392.65	0.22	400			Adjust gate valve to
	2	392.66	0.23	400			400 GPM
	3	392.66	0.23	400			
	4	392.66	0.23	400			
	5	392.66	0.23	400			
	6	392.66	0.23	400			
	7	392.66	0.23	400			
	8	392.66	0.23	400			
	9	392.66	0.23	400			
	10	392.66	0.23	400			
	15	392.00	0.24	400			
	20	392.67	0.24	400			
	25	392.67	0.25	400			
	30	392.68	0.25	400			
	35	392.68	0.25	400			
	40	392.68	0.25	400			
	45	392.68	0.25	400			
	50	392.68	0.25	400			
	55	392.68	0.25	400			
2:00PM	2 HR	392.68	0.25	400	668	82.5	Sample # 3
	1	392.69	0.26	450			Adjust gate valve to
	2	392.70	0.27	450			450 GPM

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Date: 3/1/6/10

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YIELD AND DRAWDOWN TEST REPORT  
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File:

TIME (actual)	Time Since Pumping Start/Stop (min)	Water Level Reading (ft)	Drawdown/ Recovery (ft)	Pumping Rate (gpm)	Conducti- vity ( $\mu$ S)	Chloride (mg/l)	Remarks
<b>RECOVERY</b>							
4:00PM	0						
	1		392.60				
	2		392.55				
	3		392.52				
	4		392.50				
	5		392.49				
	6		392.48				
	7		392.47				
	8		392.46				
	9		392.46				
	10		392.45				
	15		392.44				
	20		392.44				
	25		392.44				
4:30PM	30		392.43				
	35						
	40						
	45						
	50						
	55						
	60						
<b>Start 24-hr. Pump Test</b>							
4:30PM	0	392.43			663	80.4	Sample # 5
	1	392.61	0.18				Adjust gate valve to
	2	392.65	0.22				500 GPM
	3	392.66	0.23				
	4	392.68	0.25				
	5	392.71	0.28	500			
	6	392.72	0.29	500			
	7	392.73	0.30	500			
	8	392.74	0.31	500			
	9	392.75	0.32	500			
	10	392.75	0.32	500			
	15	392.78	0.35	500			
	20	392.79	0.36	500			
	25	392.80	0.37	500			
	30	392.81	0.38	500			
	35	392.81	0.38	500			
	40	392.81	0.38	500			
	45	392.82	0.39	500			

YIELD AND DRAWDOWN TEST REPORT  
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File:

TIME (actual)	Time Since Pumping Start/Stop (min)	Water Level Reading (ft)	Drawdown/ Recovery (ft)	Pumping Rate (gpm)	Conducti- vity ( $\mu$ S)	Chloride (mg/l)	Remarks
	50	392.82	0.39	500			
	55	392.82	0.39	500			
5:30PM	60	392.82	0.39	500	665	81.3	Sample # 6
	90	392.83	0.40	500			
6:30PM	120	392.83	0.40	500	661	82.6	Sample # 7
	150	392.83	0.40	500			
7:30PM	180	392.84	0.41	500	675	82.3	Sample # 8
	210	392.84	0.41	500			
8:30PM	240	392.84	0.41	500	663	83.0	Sample # 9
	270	392.84	0.41	500			
9:30PM	300	392.84	0.41	500	670	83.2	Sample # 10
	330	392.84	0.41	500			
10:30PM	360	392.84	0.41	500	676	82.8	Sample # 11
	390	392.84	0.41	500			
11:30PM	420	392.84	0.41	500	669	84.3	Sample # 12
	450	392.81	0.38	500			
12:30AM	480	392.81	0.38	500	675	86.6	Sample # 13
	510	392.81	0.38	500			
1:30AM	540	392.81	0.38	500	681	84.4	Sample # 14
	570	392.81	0.38	500			
2:30AM	600	392.81	0.38	500	675	85.1	Sample # 15
	630	392.81	0.38	500			
3:30AM	660	392.81	0.38	500	673	83.6	Sample # 16
	690	392.81	0.38	500			
4:40AM	720	392.81	0.38	500	675	86.5	Sample # 17
	750	392.81	0.38	500			
5:30AM	780	392.83	0.40	500			
	810	392.83	0.40	500			
6:30AM	840	392.83	0.40	500	677	87.3	Sample # 18
	870	392.84	0.41	500			
7:30AM	900	392.84	0.41	500			
	930	392.84	0.41	500			
8:30AM	960	392.84	0.41	500	677	74.7	Sample # 19
	990	392.84	0.41	500			
9:30AM	1020	392.84	0.41	500			
	1050	392.84	0.41	500			
10:30AM	1080	392.84	0.41	500	667	86.8	Sample # 20
	1110	392.84	0.41	500			
11:30AM	1140	392.83	0.40	500			
	1170	392.83	0.40	500			
12:30PM	1200	392.83	0.40	500	675	85.6	Sample # 21
	1230	392.82	0.39	500			
1:30PM	1260	392.82	0.39	500			
	1290	392.82	0.39	500			

## AAFB MW-6A

Date: 3/17/2010

File:

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Water and Environmental Research Institute  
of the Western Pacific

**March 22, 2010**

**Marianas Drilling, Inc.**  
**P.O. Box 8170**  
**Tamuning, Guam 96931**

**Phone: 646 -7710**

**Fax: 646 - 6600**

**Twenty-three samples were delivered to the WERI lab on 18 Mar 2010.**

**Samples were from AAFB MW-6A, Andersen South, Yigo.**

**Comments: 24 hr. pump test.**

<b>Sample</b>	<b>Date</b>	<b>Time</b>	<b>Chloride</b>	<b>Conductivity</b>
<b>Location ID</b>	<b>Collected</b>	<b>Collected</b>	<b>mg/L</b>	<b>µS</b>
Sample #1	3/16/2010	12:00 PM	85.5	688
Sample #2	3/16/2010	1:00 PM	84.2	663
Sample #3	3/16/2010	2:00 PM	82.5	668
Sample #4	3/16/2010	3:00 PM	84.6	662
Sample #5	3/16/2010	4:30 PM	80.4	663
Sample #6	3/16/2010	5:30 PM	81.3	665
Sample #7	3/16/2010	6:30 PM	82.6	661
Sample #8	3/16/2010	7:30 PM	82.3	675
Sample #9	3/16/2010	8:30 PM	83	663
Sample #10	3/16/2010	9:30 PM	83.2	670
Sample #11	3/16/2010	10:30 PM	82.8	676
Sample #12	3/16/2010	11:30 PM	84.3	669




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Sample Location ID	Date Collected	Time Collected	Chloride mg/L	Conductivity µS
Sample #13	3/17/2010	12:30 AM	86.6	675
Sample #14	3/17/2010	1:30 AM	84.4	681
Sample #15	3/17/2010	2:30 AM	85.1	675
Sample #16	3/17/2010	3:30 AM	83.6	673
Sample #17	3/17/2010	4:30 AM	86.5	675
Sample #18	3/17/2010	6:30 AM	87.3	677
Sample #19	3/17/2010	8:30 AM	74.7	677
Sample #20	3/17/2010	10:30 AM	86.8	667
Sample #21	3/17/2010	12:30 PM	85.6	675
Sample #22	3/17/2010	2:30 PM	86	688
Sample #23	3/17/2010	4:30 PM	83.7	684

Sincerely,

  
**Jennifer O. Cruz**