



PROJECT NUMBER **349821** WELL ID **MW-1** Sheet 1 of 1

**WELL DEVELOPMENT LOG**

PROJECT: **BHLC / UPRR** LOCATION: **Beverly Hills, CA**  
 DEVELOPMENT CONTRACTOR: **Gregg Drilling**  
 DEVELOPMENT METHOD AND EQUIPMENT USED: **Surge/Swab/bail/Pump**  
 START WATER LEVELS: **56.23 ft btoe** START: **9/22/09** END: **9/22/09 DTW - 56.25 ft btoe**  
 MAXIMUM DRAWDOWN DURING PUMPING:  
 RANGE AND AVERAGE DISCHARGE RATE: **0.30 gpm / 0.35 gpm** LOGGER: **C. Smiga**  
 TOTAL QUANTITY OF WATER DISCHARGED: **39 gal**  
 DISPOSITION OF DISCHARGE WATER: **Drum** Start = TD = **60.75 ft btoe / 10<sup>00</sup> - TD = 63.56 ft btoe**  
 MONITORING EQUIPMENT USED: **Horiba U-53** Casing Stick = **40 = 30.5 inches (2.54') / 11<sup>35</sup> - TD = 63.55 ft btoe**

Time	Volume Discharged (gal)	Flow Rate (gpm)	Water Level (ft BTOC)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
0832	0	-	-	Start	Bailing					Lots of Sediment, thick.
0845	4	-	-							Thick, cloudy
0850	4.5	-	-	>1,000	20.82	6.76	2.28	195	14.73	
0853	4.75	-	-	>1,000	21.21	6.47	1.66	-26	9.83	
0911	8	-	-	>1,000	21.24	6.75	1.64	-17	13.09	Cloudy
0915	8.5	-	-	Stop	Bailing					
0916	-	-	-	Begin	Surging					
0938	-	-	-	Finish	Surging					
0944	8.5	-	-	Start	Bailing					
0946	9.5	-	-	>1,000	22.25	7.27	1.59	-39	9.36	Cloudy
10 <sup>00</sup>	12	-	-	954	22.27	7.19	1.61	64	8.02	Cloudy
1007	14	-	-	Finish	Bailing					TD = 63.56 ft btoe
1023	14	0.30	-	>1,000	23.08	6.90	1.66	-35	6.39	Begin Pumping
1034	17.3	0.30	-	177	23.81	6.70	1.66	-45	5.23	clear
1042	19.7	0.30	-	77.7	23.93	6.65	1.66	-43	4.60	
1048	21.50	0.30	-	29.1	23.95	6.62	1.65	-43	4.51	
1058	24.50	0.30	-	6.36	24.01	6.58	1.65	-35	4.37	
1113	29	0.30	-	4.84	24.06	6.55	1.64	-30	4.51	
1121	31.1	0.30	-	4.24	24.08	6.54	1.65	-26	4.45	Clear
1125	32.5	0.35	-	0.98	24.12	6.53	1.64	-21	4.46	
1130	37	0.35	-	0.00	24.12	6.53	1.64	-26	4.47	
1135	39	0.35	-	0.00	24.11	6.52	1.64	-25	4.42	Stop Pumping, clear
										33.33 Well Volumes Removed
										7.33 Water 1 Well Volume = 1.17 gal 10 Volumes = 11.7 gal
										Measurement Instrument - Horiba U-53 Calibrated 9/1/09 by EnviroSupply





PROJECT NUMBER

349821

WELL ID

MW-2

Sheet 1 of 1

WELL DEVELOPMENT LOG

PROJECT: BHLC / UPRR

LOCATION: Beverly Hills, CA

DEVELOPMENT CONTRACTOR: Gregg Drilling

DEVELOPMENT METHOD AND EQUIPMENT USED: Surge / Swab / Bail / Pump

START WATER LEVELS: 43.00 ft bhc

START: 9/22/09

END:

MAXIMUM DRAWDOWN DURING PUMPING:

RANGE AND AVERAGE DISCHARGE RATE:

LOGGER: C. Smiga

TOTAL QUANTITY OF WATER DISCHARGED:

DISPOSITION OF DISCHARGE WATER: Drum Start TD=47.56 ft bhc / M36 TD=50.32 ft bhc

MONITORING EQUIPMENT USED: Horiba U-53 Casing Stick-up = 34.5 inches (2.88')

9/22  
↓  
9/23  
↓  
Bail

Time	Volume Discharged (gal)	Flow Rate (gpm)	Water Level (ft BTOC)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1335	0			Start	Bailing					Sediment, thick, cloudy
1343	2.5									Well drying out @ 2.5 gal Let well recharge.
1415				Begin	Surging					DTW-49.82 ft bhc
1416				Finish	Surging					Slow recharge. ~ 3' water
1425	3	-	-	>1,000	29.10	7.21	2.17	59	13.34	Well Dry
1436	3	-	-	-	-	-	-	-	-	Well Dry. Wait to recharge. TD=50.32 ft bhc / DTW=50.10 ft bhc
1445				Begin	Surging					Show Recharge
1455				Finish	Surging					Wait for recharge
1605	3			Begin	Bailing					Finished Dev. for day
1610	3.25			Finish	Bailing					
0818				Collect	DTW/TD					DTW-45.08 / TD-50.15
0830				Begin	Surging					
0900				Stop	Surging					DTW-44.90
0912	3.25			Begin	Bailing					
0915	3.50	-	-	>1,000	21.74	7.05	2.43	236	7.84	Cloudy
0920	3.75	-	-	1,000	21.74	6.96	2.45	220	6.47	Cloudy
0923	4	-	-	>1,000	21.70	6.96	2.47	207	6.43	Cloudy
0925	4.25	-	-	>1,000	21.66	6.96	2.47	200	7.35	Cloudy, well went dry
				Stop	Bailing					
1225										DTW-49.18
1315	4.5	-	-	>1,000	29.46	7.68	2.23	298	16.21	DTW-48.85
1320	4.6	-	-	>1,000	30.36	7.54	2.17	286	12.56	
										7.32' water Well volume = 1.17 gal 10 volumes = 11.7 gal
										Measurement Instrument - Horiba U-53 Calibrated 3/11/09 by Enviracopy