

## **ATTACHMENT 5: WATER LEVEL MEASUREMENTS**

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This attachment contains water level measurements for the JPL relatively shallow standpipe monitoring wells (MW-1, MW-5 through MW-10, MW-13, MW-15, and MW-16) and the Westbay™ multiport wells (MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-26) obtained during the 3<sup>rd</sup> Quarter 2018. Water level measurements were recorded before the sampling event on July 20, 2018 for the relatively shallow standpipe monitoring wells and July 20, 30 and 31, 2018 for the Westbay™ multiport wells. Water level measurements were recorded after the sampling event on August 03, 2018 for the relatively shallow standpipe monitoring wells and August 02 and 03, 2018 for the Westbay™ multiport wells. Water levels for the shallow wells were measured using a Solinst™ water level meter. In the deep multiport wells, the hydraulic head at each sampling port was measured with a Westbay™ MOSDAX sampling probe. Water level measurements were conducted by Blaine Tech Services, Inc.

Note: During the third quarter 2018, the shallow standpipe well MW-13 was inaccessible due to ongoing construction activities.

## WELL GAUGING DATA

Project # 180720-HH1 Date 07/20/18 Client Tidelwater

Site JPL, Pasadena, CA

Well ID	Well Size (in.)	Time Gauged	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4	0830					28.99	Ded pump		
MW-5	4	1255					116.73	Ded pump		
MW-6	4	1117					228.64	Ded pump		
MW-7	4	1422					254.76	Ded pump		
MW-8	4	1335					181.15	Ded pump		
MW-9	4	0834					23.15	Ded pump		
MW-10	4	1325					132.55	Ded pump		
MW-13	— well blocked off - unable to access —									
MW-15	4	1229					34.52	Ded pump		
MW-16	4	1415					276.43	284.73		V

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-3  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1100.34  
 WEATHER: Clear  
 DTW - 173.09'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.11  
 Temp: 26.25°C 20.89°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	653	650	223.34	225.12	223.34	24.41	486.85	166.15	653	0845
4	558	556	182.09	185.30	182.09	24.15	394.98	163.02	558	0847
3	346	344	99.85	93.72	99.85	23.24	183.71	162.29	346	0849
2	252	250	48.88	53.72	48.88	22.30	91.43	160.57	252	0851
1	172	170	14.21	23.66	14.21	20.98	22.08	149.92	172	0853

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-4  
 DATE: 07/31/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1082.84  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoary  
 ATM. PRESSURE (Patm): (start) 14.06 (finish) 14.07  
 Temp: 26.91°C 20.11°C

DTW -149.97'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) $P(ft) = (P2 - Patm) * 2.307 \text{ ft/psi}$	Depth to Water Outside Port (ft) $DTW = Dp - P(ft)$	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	513	509	172.87	175.86	172.87	23.27	373.27	139.73	513	1056
4	392	388	120.10	123.43	120.10	22.70	252.32	139.68	392	1058
3	322	319	89.55	93.07	89.55	22.00	182.28	139.72	322	1100
2	240	237	53.72	57.73	53.72	20.90	100.75	139.25	240	1102
1	150	147	14.17	22.84	14.17	18.94	20.26	129.74	150	1104

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-11  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1139.3  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoary  
 ATM. PRESSURE (Patm): (start) 14.05 (finish) 14.08  
 Temp: 27.89°C 24.61°C

DTW - 166.10'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(f)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(f)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	639	635	209.97	196.62	209.97	24.52	421.19	217.81	639	1213
4	524	521	160.35	162.46	160.35	23.46	342.38	181.62	524	1214
3	429	427	119.53	118.75	119.53	21.56	241.54	187.46	429	1216
2	259	256	45.96	48.60	45.96	20.53	79.71	179.29	259	1218
1	149	146	14.18	24.62	14.18	19.76	24.38	124.62	149	1220

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-12  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING 1102.14  
 WEATHER: Clear  
 DTW - 158.50'

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. Hoang  
 ATM. PRESSURE (Palm): (start) 14.09 (finish) 14.11  
 Temp: 26.68°C 21.31°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	548	546	184.11	174.10	184.11	27.14	369.14	178.86	548	1239
4	436	435	135.65	133.60	135.65	23.37	275.71	160.29	436	1242
3	323	321	86.22	85.73	86.22	21.94	165.27	157.73	323	1244
2	243	241	51.64	52.10	51.64	20.81	87.69	155.31	243	1246
1	140	139	14.20	16.28	14.20	19.94	5.05	134.95	140	1248

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-14  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1173.47  
 WEATHER: Clear  
 DTW-192.23

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 8502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. HOWAN  
 ATM. PRESSURE (Palm): (start) 14.02 (finish) 14.07  
 Temp: 20.45°C 19.81°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mh <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	540	538	166.13	155.55	166.13	25.95	326.51	213.49	540	1128
4	456	455	130.38	119.33	130.38	23.83	242.95	213.05	456	1130
3	382	380	97.55	87.27	97.55	22.74	168.99	213.01	382	1132
2	277	274	51.70	41.83	51.70	21.69	64.16	212.84	277	1134
1	207	205	21.16	14.22	21.16	20.85	0.46	206.54	207	1136

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-17  
 DATE: 07/30/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1191.21  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Henry  
 ATM. PRESSURE (Patm): (start) 14.07 (finish) 14.02  
 Temp: 29.6°C 19.6°C

DTW -208.06

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	726	725	239.49	199.93	239.49	21.43	428.78	297.22	726	1115
4	582	580	177.18	144.82	177.18	20.74	301.64	280.36	582	1118
3	468	466	127.63	102.42	127.63	18.97	203.82	264.18	468	1120
2	370	368	85.07	63.41	85.07	17.98	113.83	256.17	370	1123
1	250	248	32.86	17.49	32.86	16.92	7.89	242.11	250	1125

Comments: Collar Detect is 6" above sample port



**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-18  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1225.41  
 WEATHER: Clear  
 DTW - 293.79'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS25012  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (P<sub>atm</sub>): (start) 14.02 (finish) 14.04  
 Temp: 21.09°C 18.90°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	684	681	184.32	174.37	184.32	20.74	369.93	314.07	684	0807
4	564	561	132.14	126.31	132.14	20.94	259.05	304.95	564	0809
3	424	422	71.33	71.90	71.33	20.23	179.67	244.33	424	0811
2	330	327	30.46	33.79	30.46	19.16	45.61	284.39	330	0813
1	270	268	14.20	14.19	14.20	18.53	0.39	269.61	270	0815

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-19  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1142.94  
 WEATHER: Partly Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EM5478502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (P<sub>atm</sub>): (start) 14.08 (finish) 14.09  
 Temp: 25.93°C 20.16°C

DTW - 139.60'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-P <sub>atm</sub> )*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	498	496	169.57	135.50	169.57	23.22	280.12	217.88	498	0910
4	444	442	146.11	112.25	146.11	22.31	226.48	217.52	444	0912
3	392	389	123.53	95.74	123.53	21.60	188.39	203.61	392	0914
2	314	312	90.33	62.06	90.33	20.66	110.69	203.31	314	0916
1	242	240	58.35	32.41	58.35	20.22	42.29	199.71	242	0918

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-20  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1165.05  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 74.04 (finish) 14.06  
 Temp: 22.96°C 18.89°C

DTW - 239.91'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	900	873	301.59	303.66	301.59	22.54	668.15	231.85	900	0732
4	700	696	214.21	205.18	214.21	22.77	440.96	259.04	700	0735
3	562	558	154.69	146.98	154.69	22.10	306.46	255.54	562	0738
2	392	389	80.91	79.30	80.91	20.60	150.55	241.45	392	0740
1	230	228	14.24	14.20	14.24	19.01	0.37	229.63	230	0742

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-21  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1059.10  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: FMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Harris  
 ATM. PRESSURE (Patm): (start) 14.11 (finish) 14.13  
 Temp: 32.38°C 28.31°C

DTW - 115.74'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(H)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	372	370	126.47	131.13	126.47	26.08	269.97	102.03	372	1037
4	310	309	99.48	104.27	99.48	24.46	208.00	102.00	310	1039
3	240	239	70.40	74.48	70.40	21.75	139.27	100.73	240	1041
2	161	160	35.07	40.41	35.07	20.82	60.67	100.33	161	1043
1	90	89	14.22	14.23	14.22	20.34	0.28	89.72	90	1045

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-22  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING 1176.98  
 WEATHER: Clear

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T-Hoang  
 ATM. PRESSURE (P<sub>atm</sub>): (start) 19.05 (finish) 14.07  
 Temp: 26.11°C 20.11°C

DTW - 215.91'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(R)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	588	586	176.17	168.26	176.17	23.47	355.76	232.24	588	1152
4	467	467	123.84	117.78	123.84	23.18	239.31	227.69	467	1154
3	389	387	89.99	86.98	89.99	22.67	168.25	220.75	389	1156
2	329	327	64.03	60.94	64.03	22.17	108.18	220.82	329	1158
1	245	243	27.03	25.36	27.03	21.57	26.09	218.91	245	1200

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-23  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1108.84  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Palm): (start) 14.04 (finish) 14.07  
 Temp: 25.27°C 23.45°C

DTW - <sup>PA</sup> 215.91' 138.71'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	542	539	189.33	177.84	189.33	24.89	377.89	164.11	542	1306
4	445	443	147.28	135.88	147.28	23.93	281.08	163.92	445	1308
3	319	317	92.90	84.60	92.90	23.03	162.78	156.22	319	1310
2	254	252	64.50	56.58	64.50	22.25	98.14	155.86	254	1312
1	174	172	29.74	23.54	29.74	21.40	21.92	152.08	174	1314

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-24  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1200.94  
 WEATHER: Clear  
 DTW - 211.44

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.05 (finish) 14.06  
 Temp: 31.93°C 22.91°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) $P(f) = (P2 - Patm) \cdot 2.307 \text{ ft/psi}$	Depth to Water Outside Port (ft) $DTW = Dp - P(f)$	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	miH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	678	675	216.35	142.36	216.35	27.22	411.36	266.64	678	1350
4	554	552	162.59	142.00	162.59	25.57	295.18	258.82	554	1352
3	435	433	112.17	111.20	112.17	23.44	184.05	250.95	435	1354
2	373	371	111.20 <sup>min</sup> 84.20	93.83 67.40	111.20 <sup>min</sup> 84.20	23.05	123.08	248.92	372	1356
1	279	277	44.43 43.53 <sup>min</sup>	29.60	44.43 43.53 <sup>min</sup>	23.17	35.87	243.13	279	1358

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-25  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 934.53  
 WEATHER: Clear  
DTW-244.86'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: ELMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.06 (finish) 14.07  
 Temp: 24.83°C 20.01°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	miH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	713	710	217.78	206.84	217.78	22.98	444.74	268.26	713	0704
4	633	630	183.25	171.83	183.25	22.72	363.98	269.02	633	0706
3	503	501	127.94	119.01	127.94	22.04	242.12	260.88	503	0708
2	423	421	92.46	88.04	92.46	21.56	170.65	252.35	423	0710
1	358	<del>358</del> 356	64.07	61.60	64.07	21.13	109.67	248.33	358	0712

Comments: Collar Detect is 2' below sample port



**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-26  
 DATE: 07/20/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1059.08  
 WEATHER: clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EVMS 4700 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.10  
 Temp: 26.19°C 23.04°C

DTW-64.79'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
2	215	211	78.56	55.36	78.56	24.30	95.21	119.79	215	0935
1	135	132	43.74	21.09	43.74	22.61	16.15	118.85	135	0937

Comments: Collar Detect is 2' below sample port

## WELL GAUGING DATA

Project # 180720-AA1 Date 08/03/18 Client TideWater

Site JPL, Pasadena, CA

Well ID	Well Size (in.)	Time Gauged	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4	0725					30.85	Ded pump	↓	
MW-5	4	1118					119.85	Ded pump		
MW-6	4	1004					231.11	Ded pump		
MW-7	4	1315					258.49	Ded pump		
MW-8	4	1208					184.65	Ded pump		
MW-9	4	0730					25.60	Ded pump		
MW-10	4	1111					135.56	Ded pump		
MW-13	- unable to access -									
MW-15	4	1200					36.25	Ded pump		
MW-16	4	1305					280.41	284.73		

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-3  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1100.34  
 WEATHER: Clear  
 DTW - 173.15'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 250 2  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Palm): (start) 14.07 (finish) 14.09  
 Temp: 21.25°C 20.05°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	653	650	222.41	224.04	222.41	22.61	484.40	168.60	653	0744
4	558	556	181.19	184.26	181.19	22.84	392.63	165.37	558	0746
3	346	344	89.01	92.67	89.01	22.35	181.33	164.67	346	0748
2	252	250	48.13	52.60	48.13	21.63	88.89	163.11	252	0750
1	172	170	14.23	22.28	14.23	19.80	18.94	153.06	172	0752

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-4  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1082.84  
 WEATHER: Clear  
 DTW = 149.9150.05'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EM52502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.06 (finish) 14.08  
 Temp: 26.26°C 20.67°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(f)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(f)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	513	509	172.53	175.64	172.53	24.51	372.77	140.23	513	1128
4	392	389	119.91	123.20	119.81	23.64	251.79	140.21	392	1130
3	322	319	89.31	92.82	89.31	22.89	181.70	140.30	322	1132
2	240	238	53.57	57.51	53.57	22.02	100.24	139.76	240	1134
1	150	148	14.19	22.55	14.19	20.81	19.59	130.41	150	1136

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-11  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1139.3  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.01 (finish) 14.03  
 Temp: 27.46°C 22.05°C

DTW - 166.19'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) $P(f) = (P2 - Patm) * 2.307 \text{ ft/psi}$	Depth to Water Outside Port (ft) $DTW = Dp - P(f)$	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	639	635	208.56	195.62	208.86	24.56	418.97	220.03	639	1217
4	524	521	159.47	161.38	159.47	23.78	339.98	184.02	524	1219
3	429	427	118.52	117.61	118.52	22.05	239.01	189.99	429	1221
2	259	257	44.88	47.41	44.88	20.75	77.05	181.95	259	1223
1	149	147	14.16	23.97	14.16	19.83	22.98	126.02	149	1225

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-12  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1102.14  
 WEATHER: Clear  
 DTW - 158.59'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): Ti Haang  
 ATM. PRESSURE (Patm): (start) 14.04 (finish) 14.06  
 Temp: 21.55°C 19.01°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) $P(f) = (P2 - Patm) * 2.307 \text{ ft/psi}$	Depth to Water Outside Port (ft) $DTW = Dp - P(f)$	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	548	546	184.31	173.17	184.31	21.41	367.11	180.89	548	1147
4	436	435	135.64	132.57	135.64	21.44	273.45	162.55	436	1149
3	323	321	86.31	84.57	86.31	20.79	162.71	160.29	323	1151
2	243	241	51.55	50.88	51.55	19.73	84.99	158.01	243	1153
1	140	138	14.20	14.14	14.20	19.10	0.23	139.77	140	1155

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-14  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1173.47  
 WEATHER: Clear  
DTW - 192.35

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.03 (finish) 14.05  
 Temp: 26.45°C 20.44°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	540	538	166.12	154.55	166.12	24.24	324.18	215.82	540	1012
4	456	455	129.45	118.31	129.45	23.55	240.57	215.43	456	1014
3	382	380	97.38	86.28	97.38	21.75	166.68	215.32	382	1016
2	277	275	51.57	40.81	51.57	21.00	61.78	215.22	277	1018
1	207	205	21.09	14.13	21.09	20.46	0.23	206.77	207	1020

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-17  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING 1191.21  
 WEATHER: Clear

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.03 (finish) 14.05  
 Temp: 21.07°C 20.33°C

PTW-208.11'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(f) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(f)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mt <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	726	723	239.22	200.34	239.22	20.40	429.82	296.18	726	0807
4	582	580	176.95	145.28	176.95	20.36	302.79	279.21	582	0810
3	468	466	127.50	102.47	127.50	19.66	204.03	263.97	468	0812
2	370	368	85.02	63.33	85.02	18.76	113.74	256.26	370	0814
1	250	248	32.79	17.12	32.79	17.86	7.13	242.87	250	0816

Comments: Collar Detect is 6" above sample port



**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-18  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING 1225.41  
 WEATHER: Clear  
 PTW - 293.87'

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. Haas  
 ATM. PRESSURE (Patm): (start) 14.02 (finish) 14.03  
 Temp: 20.53°C 20.03°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	684	681	184.31	173.60	184.31	20.95	368.15	315.85	684	0828
4	564	561	132.12	125.23	132.12	21.02	256.56	307.44	564	0830
3	424	422	71.22	70.90	71.22	20.26	131.22	292.78	424	0832
2	330	327	30.36	32.73	30.36	19.33	43.16	286.84	330	0834
1	270	268	14.18	14.17	14.18	18.69	0.35	269.65	270	0836

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-19  
 DATE: 08/02/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1142.94  
 WEATHER: Clear  
DTU-139.67'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: FMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hawk  
 ATM. PRESSURE (Patm): (start) 14.06 (finish) 14.08  
 Temp: 21.67°C 19.85°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	498	496	169.57	134.62	169.57	21.05	278.13	219.87	498	0851
4	444	442	146.03	111.33	146.03	20.70	224.40	219.60	444	0853
3	392	389	123.64	94.82	123.64	20.44	186.31	205.69	392	0855
2	314	312	89.75	61.12	89.75	20.13	108.57	205.43	314	0857
1	242	240	58.52	31.43	58.52	19.75	40.07	201.93	242	0859

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MY-20  
 DATE: 02/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1165.05  
 WEATHER: Clear  
DTW - 239.98'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Palm): (start) 14.03 (finish) 14.02  
 Temp: 21.61°C 18.75°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	900	896	301.60	302.28	301.60	21.94	666.38	233.62	900	0701
4	700	696	214.88	204.23	214.88	22.31	438.79	261.21	700	0703
3	562	558	154.88	146.36	154.88	21.73	305.29	256.71	562	0705
2	392	389	80.87	78.59	80.87	20.21	148.94	243.06	392	0707
1	230	228	14.25	14.18	14.25	18.81	0.35	229.65	230	0709

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-21  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING 1059.10  
 WEATHER: Clear

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.13  
 Temp: 83.81°C 19.88°C

DTW - 115.82'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi	kg/cm <sup>2</sup>	mH <sub>2</sub> O	Trans. Temp. (oC)				
			Inside Casing	Outside Casing P2	Inside Casing					
5	372	370	126.53	30.07	126.53	22.44	267.57	104.43	372	0934
4	310	310	99.57	103.24	99.57	21.75	205.67	104.33	310	0936
3	240	238	69.48	73.42	69.48	21.10	136.87	103.13	240	0938
2	161	160	35.04	39.34	35.04	20.39	58.25	102.75	161	0940
1	90	89	14.16	14.13	14.16	19.91	0.09	89.91	90	0942

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-22  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1176.98  
 WEATHER: Clean  
DTW 215.99'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.05 (finish) 14.08  
 Temp: 22.42°C 20.61°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mf <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	588	586	176.07	167.23	176.07	22.65	353.39	234.61	588	1031
4	467	466	124.47	116.79	123.66	22.39	237.02	229.98	467	1033
3	389	387	89.89	85.93	84.89	22.10	165.80	223.20	389	1035
2	329	328	63.86	59.81	63.86	21.74	105.57	223.43	329	1037
1	245	243	26.93	24.14	26.93	21.27	23.28	221.72	245	1039

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-23  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING 1108.84  
 WEATHER: Clear  
 DTW - 138.80'

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. HOCUM  
 ATM. PRESSURE (Palm): (start) 14.07 (finish) 14.08  
 Temp: 27.25°C 21.30°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	542	539	188.78	176.81	188.78	24.60	375.44	166.56	542	1057
4	445	443	146.65	134.83	146.65	23.73	278.59	166.41	445	1059
3	319	317	91.90	83.49	91.90	22.78	160.15	158.85	319	1101
2	254	253	63.99	55.44	63.99	21.97	95.44	158.56	254	1103
1	174	172	29.19	22.30	29.19	21.33	18.99	155.01	174	1105

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MY-24  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1200.94  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. HAWNS  
 ATM. PRESSURE (Palm): (start) 14.02 (finish) 14.01  
 Temp: 23.67°C 22.05°C

DTW - 211.52'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) $P(R) = (P2 - P_{atm}) * 2.307 \text{ ft/psi}$	Depth to Water Outside Port (ft) $DTW = Dp - P(R)$	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mi <sup>2</sup> O Inside Casing	Trans. Temp. (°C)				
5	678	675	216.01	141.36	216.01	22.60	409.12	268.88	678	1238
4	554	552	162.32	141.00	162.32	22.16	292.94	261.06	554	1240
3	435	433	110.81	92.71	110.81	22.61	181.54	253.46	435	1243
2	373	371	83.98	66.31	83.98	22.36	120.63	251.37	372	1245
1	279	277	43.18	28.12	43.18	22.09	32.53	246.47	279	1247

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-25  
 DATE: 08/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 934.53  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: ELMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.10 (finish) 14.11  
 Temp: 26.42°C 21.50°C

DTW-245.05'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	713	710	217.55	206.64	217.55	23.98	444.19	268.81	713	0634
4	633	630	183.36	171.64	183.76	23.50	363.44	269.56	633	0636
3	503	501	127.20	118.76	127.20	22.62	241.45	261.55	503	0638
2	423	421	92.38	87.74	92.38	21.97	169.89	253.11	423	0640
1	358	356	63.88	61.24	63.88	21.53	108.87	249.13	358	0642

Comments: Collar Detect is 2' below sample port



**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-26  
 DATE: 06/03/18  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1059.08  
 WEATHER: Clear  
 DTW 64.87'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hooley  
 ATM. PRESSURE (Patm): (start) 14.12 (finish) 14.14  
 Temp: 23.80°C 21.83°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
2	215	211	28.44	54.74	28.44	22.87	93.71	121.29	215	0915
1	135	132	43.60	20.62	43.60	21.75	15.00	120.00	135	0917

Comments: Collar Detect is 2' below sample port