

ATTACHMENT 5: WATER LEVEL MEASUREMENTS

This attachment contains water level measurements for the JPL relatively shallow standpipe monitoring wells (i.e., MW-1, MW-5 through MW-10, MW-13, MW-15, and MW-16) and the Westbay™ multiport wells (i.e., MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-26) obtained during the fourth quarter 2022. Water level measurements were recorded before and after the sampling event on October 21, 2022, and November 4, 2022, respectively. Monitoring wells MW-17, MW-22, and MW-26 were not accessible during the collection of pre-sampling groundwater elevations, and therefore, groundwater elevations were collected prior to sampling on October 26 (MW-22), October 27 (MW-17), and October 28 (MW-26), respectively. 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.

WELL GAUGING DATA

Project # 221021-HH1 Date 10/21/22 Client Tide water

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	1250					42.81	Ded pump	↓	
MW-5	4	0958					134.30	135.47		
MW-6	4	0852					DRY	237.43		
MW-7	4	0730					DRY	268.35		
MW-8	4	0807					DRY	202.15		
MW-9	4	1256					37.39	Ded pump		
MW-10	4	0700					DRY	153.54		
MW-13	4	0815					DRY	234.05		
MW-15	4	1048					48.44	Ded pump		
MW-16	4	0712					283.94	284.51		↓

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

WELL ID: MW-3
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1100.34
 WEATHER: Clear
 DTW - 189.81

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 250C
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoan
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.11
 Temp: 22.52°C 20.79°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 ² Outside Casing P2	mH ₂ O Inside Casing	Trans. Temp. (oC)				
5	653	651	215.90	216.80	215.90	22.85	467.65	185.35	653	1242
4	558	555	174.64	175.72	174.64	22.75	372.88	185.12	558	1244
3	346	343	82.40	83.93	82.40	22.24	161.12	184.88	346	1246
2	252	249	41.46	43.20	41.46	21.66	67.16	184.84	252	1248
1	172	169	14.20	14.23	14.20	20.87	0.32	171.68	172	1250

Comments: Collar Detect is 2' above sample port

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

WELL ID: MW-4
 DATE: 10/21/72
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING: 1082.84
 WEATHER: Clear
 DTW - 166.43'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hoag
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.15
 Temp: 22.74°C 20.62°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 ² Outside Casing P2	mH ₂ O Inside Casing	Trans. Temp. (oC)				
5	513	512	165.42	165.20	165.42	22.46	348.61	164.39	513	1011
4	392	391	112.75	112.74	112.75	22.43	227.59	164.41	392	1013
3	322	320	82.28	82.39	82.28	22.23	157.57	164.43	322	1015
2	240	238	46.51	46.64	46.51	21.70	75.09	164.91	240	1017
1	150	148	14.25	14.24	14.25	21.29	0.35	149.65	150	1019

Comments: Collar Detect is 2' above sample port

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

WELL ID: MW-11
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1139.3
 WEATHER: Clear
 DTW - 212.19'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoang
 ATM. PRESSURE (Patm): (start) 74.11 (finish) 14.19
 Temp: 20.92°C 19.89°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	kg/cm ²	mH ₂ O	Trans. Temp. (oC)				
			Inside Casing	Outside Casing P2	Inside Casing					
5	639	635	198.68	190.31	198.68	21.15	406.49	232.51	639	0937
4	524	521	149.21	151.11	149.21	21.43	316.06	207.94	524	0939
3	429	426	108.36	107.56	108.36	21.26	215.59	213.41	429	0941
2	259	255	34.69	36.83	34.69	20.64	52.42	206.58	259	0943
1	149	145	14.20	18.25	14.20	20.12	9.55	139.45	149	0945

Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-12
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1102.14
 WEATHER: Clear
 PTW - 176.90'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoang
 ATM. PRESSURE (Patm): (start) 14.10 (finish) 14.08
 Temp: 19.12°C 19.30°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 ² Outside Casing P2	mH ² O Inside Casing	Trans. Temp. (oC)				
5	548	546	176.30	168.64	176.30	19.77	356.52	191.48	548	1035
4	436	434	127.63	123.77	127.63	20.14	253.01	182.99	436	1037
3	323	321	78.46	74.55	78.46	20.02	139.46	183.54	323	1039
2	243	241	43.54	39.95	43.54	19.71	59.64	183.36	243	1041
1	140	138	14.20	14.17	14.20	19.29	0.16	139.84	140	1043

Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-14
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1173.47
 WEATHER: Clear
 DTW - 199.87'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EM8502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoan
 ATM. PRESSURE (Patm): (start) 14.02 (finish) 14.04
 Temp: 18.97°C 19.77°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 ² Outside Casing P2	mH ₂ O Inside Casing	Trans. Temp. (oC)				
5	540	538	162.72	142.69	162.72	19.46	296.84	243.16	540	0835
4	456	454	126.15	106.34	126.15	19.80	212.98	243.02	456	0837
3	382	381	93.90	74.24	93.90	19.95	138.93	243.07	382	0839
2	277	275	48.21	28.62	48.21	19.90	33.68	243.32	277	0841
1	207	205	17.68	14.15	17.68	19.81	0.30	206.70	207	0843

Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-17
 DATE: 10/27/72
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1191.21
 WEATHER: Clear
 DTW - 212.06'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hogg
 ATM. PRESSURE (Patm): (start) 14.08 (finish) 14.12
 Temp: 21.88°C 17.99°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 ² Outside Casing P2	mH ² O Inside Casing	Trans. Temp. (oC)				
5	726	725	231.78	178.68	231.78	19.85	379.73	346.27	726	0737
4	582	580	175.39	122.96	175.39	19.87	251.19	330.81	582	0739
3	468	467	125.97	88.69	125.97	19.86	172.13	295.87	468	0741
2	370	368	83.36	50.61	83.36	18.51	84.27	285.73	370	0743
1	250	248	31.13	14.17	31.13	17.63	0.21	249.79	250	0745

Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-18
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1225.41
 WEATHER: Clear
 DTW - 297.81

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hagg
 ATM. PRESSURE (Patm): (start) 14.00 (finish) 14.03
 Temp: 24.02°C 21.39°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 ² Outside Casing P2	mH ₂ O Inside Casing	Trans. Temp. (oC)				
5	684	682	182.48	165.81	182.48	23.92	350.23	333.77	684	1315
4	564	562	130.39	118.38	130.39	23.30	240.80	323.20	564	1317
3	424	422	69.56	61.19	69.56	22.45	108.87	315.13	424	1319
2	330	328	28.61	20.85	28.61	21.67	15.80	314.20	330	1321
1	270	268	14.17	14.20	14.17	21.04	0.46	269.54	270	1323

Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-19
 DATE: 10/21/72
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1142.94
 WEATHER: Clear
 DTW - 144.41

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoang
 ATM. PRESSURE (Patm): (start) 7404 (finish) 14.09
 Temp: 27.87°C 21.24°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 ² Outside Casing P2	mH ₂ O Inside Casing	Trans. Temp. (oC)				
5	498	496	167.58	127.36	167.58	25.64	261.43	236.57	498	1215
4	444	442	144.13	103.99	144.13	24.62	207.51	236.49	444	1217
3	392	390	121.56	83.81	121.56	23.77	160.96	231.04	392	1219
2	314	312	87.77	49.68	87.77	23.01	82.22	231.78	314	1221
1	242	240	56.45	18.31	56.45	22.18	9.85	232.15	242	1223

Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-20
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1165.05
 WEATHER: Clear
DTW - 249.92'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2562
 PROJECT JPL Pasadena
 OPERATOR(S) T. Huang
 ATM. PRESSURE (Patm): (start) 74.01 (finish) 14.06
 Temp: 24.30 °C 19.63 °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 ² Outside Casing P2	mH ² O Inside Casing	Trans. Temp. (oC)				
5	900	895	297.05	290.38	297.05	23.75	637.59	262.41	900	1345
4	700	695	210.38	194.25	210.38	23.45	415.81	284.19	700	1348
3	562	558	150.35	136.82	150.35	22.67	283.32	278.68	562	1350
2	392	390	76.46	66.75	76.46	21.29	121.67	270.33	392	1352
1	230	225	14.18	14.23	14.18	20.29	0.51	229.49	230	1354

Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-21
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1059.10
 WEATHER: Clear
 DTU-119.41'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hoang
 ATM. PRESSURE (Patm): (start) 14.13 (finish) 14.15
 Temp: 20.89°C 20.40°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 ² Outside Casing P2	mH ₂ O Inside Casing	Trans. Temp. (oC)				
5	372	371	124.87	117.67	124.87	21.13	238.87	133.13	372	1107
4	310	308	97.94	90.80	97.94	21.00	176.88	133.12	310	1109
3	240	239	67.87	60.91	67.87	20.77	107.92	132.08	240	1111
2	161	160	33.45	26.69	33.45	20.49	28.98	132.02	161	1113
1	90	88	14.19	14.20	14.19	20.25	0.16	89.84	90	

Comments: Collar Detect is 2' above sample port

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

WELL ID: MW-22
 DATE: 10/26/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1176.98
 WEATHER: Clear
 DTW - 249.40'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hagen
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.12
 Temp: 17.75°C 20.19°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 ² Outside Casing P2	mH ² O Inside Casing	Trans. Temp. (oC)				
5	588	586	162.61	151.65	162.61	19.82	317.35	270.65	588	0739
4	467	466	110.06	102.18	110.06	20.71	203.22	263.78	467	0741
3	389	387	76.10	73.04	76.10	20.92	136.00	253.00	389	0743
2	329	328	49.92	46.94	49.92	20.56	75.78	253.22	329	0745
1	245	244	14.23	14.23	14.23	20.63	0.32	244.68	245	0747

Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-23
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1108.84
 WEATHER: clear
 DTW-173.52

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoan
 ATM. PRESSURE (Patm): (start) 14.08 (finish) 14.12
 Temp: 21.12 °C 20.06 °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 ² Outside Casing P2	mH ² O Inside Casing	Trans. Temp. (oC)				
5	542	540	187.14	166.83	187.14	21.27	352.39	189.61	542	0908
4	445	444	145.12	125.04	145.12	21.43	255.98	189.02	445	0910
3	319	318	90.49	71.87	90.49	21.36	133.32	185.68	319	0912
2	254	253	62.38	43.60	62.38	21.15	68.10	185.90	254	0914
1	174	173	27.63	14.19	27.63	20.83	0.25	173.75	174	0916

Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-24
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1200.94
 WEATHER: Clear
 DTW - 252.78

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hong
 ATM. PRESSURE (Patm): (start) 14.01 (finish) 14.03
 Temp: 24.33°C 22.51°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 ² Outside Casing P2	mH ₂ O Inside Casing	Trans. Temp. (oC)				
5	678	676	198.54	183.79	198.54	23.51	391.68	286.32	678	0753
4	554	553	144.95	131.70	144.95	23.37	271.51	282.49	554	0755
3	435	433	93.25	81.50	93.25	23.00	155.70	279.30	435	0757
2	373	372	66.40	54.42	66.40	22.86	93.23	279.77	373	0759
1	279	277	25.65	14.87	25.65	22.82	1.98	277.02	279	0801

Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-25
 DATE: 10/21/22
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 934.53
 WEATHER: Clear
 DTW - 249.71'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoang
 ATM. PRESSURE (Patm): (start) 19.16 (finish) 19.18
 Temp: 24.04°C 22.20°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 ² Outside Casing P2	mH ₂ O Inside Casing	Trans. Temp. (oC)				
5	713	711	215.61	210.64	215.61	23.94	453.28	259.72	713	1418
4	633	631	181.24	177.19	181.24	23.66	376.11	256.89	633	1420
3	503	501	124.86	122.60	124.86	23.09	250.17	252.83	503	1422
2	423	421	90.22	89.24	90.22	22.59	173.21	249.79	423	1424
1	358	356	61.95	61.74	61.95	22.12	109.77	248.23	358	1426

Comments: Collar Detect is 2' below sample port

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

WELL ID: MW-26
 DATE: 10/28/02
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1059.08
 WEATHER: Clear
 DTW - 59.79'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Houg
 ATM. PRESSURE (Patm): (start) 14.18 (finish) 14.23
 Temp: 26.28°C 22.25

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 ² Outside Casing P2	mH ² O Inside Casing	Trans. Temp. (oC)				
2	215	212	81.41	41.58	81.41	24.27	63.21	151.79	215	1130
1	135	132	46.56	14.33	46.56	22.87	0.35	134.65	135	1132

Comments: Collar Detect is 2' below sample port