#### **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 first quarter 2022. Water level measurements were recorded before and after the sampling event on January 28, 2022, and February 18, 2022, respectively. Monitoring wells MW-11, MW-21, MW-22, MW-24, and MW-26 were not accessible during the collection of presampling groundwater elevations, and therefore, groundwater elevations were collected prior to sampling on February 2 (MW-22 and MW-24), February 4 (MW-26), February 7 (MW-11), and February 9 (MW-21), 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.

Note: During the first quarter 2022 water level measurements could not be obtained from MW-12 due to an issue with the multi-port (MP) casing which was later determined to be a disconnected MP-38 casing joint.

### WELL GAUGING DATA

Project # <u>220128H5-1</u> Date_	1-28-22	Client Tidewater
Site JPL		

	1	T	T .	<u> </u>	Thickness		T		
	Well		1	Depth to	of	Volume of		David	
	Size	Time	Sheen /	Immiscible	Immiscible	Immiscibles	Denth to water	Depth to	Survey
Well ID	(in.)	Gauged	Odor	Liquid (ft.)	Liquid (ft.)	Removed (ml)	Depth to water (ft.)	(A)	or TOC
MW-1	4	1442			,		27.37	Grad Dog	01100
MW-5	4	0000						135.55	
MW-6	4	1015						238.23	
MW-7	4	1515	! ! !	:			DRY	268.02	
MW-8	4	1530	:	1			DRY	202.10	
MW-9	4	1438.	: : : :				2047	brul. Sogo	
MW-10	4	0015	1 1 1 1 1				DRY	123.59	
MW-13	4	0900			· 3			234.78	
MW-15	Ч	1500			! ! ! !	1 1 1 1	32.39	barl Deg.	
MW-16	4	1445				1	284.30	285.49	; ; ;
1						 		1 1 1 1 1	
:								1 1 1 1 1	; ; ;
		   1   1   1			! !		1		
1		1	1 1 1 1 1	1			1	1	
1 1 1 1					1 1 1 1 2	1	1	; ; ;	
	1 1 1 1 1		   1   1   1		1			3	
	1	1		1	1		1		1

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		WELL ID:	MW-3				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE:	1/28/2	2			SERIAL NO. EM	5 2502		
		LOCATION:	JPL				PROJECT	JPL Pasadena		_
		ELEV. TOP OF	WASTBAY CASING	3	1100.34		OPERATOR(S) / //	ndesan		<del>-</del>
		WEATHER:	clear, sun	ny		;	ATM. PRESSURE (Patm):	2 4 . 2 4	finish) /4./5	-
		2	-47	181.31			Temp:	2255	19.42	<del>-</del>
	Depth	to Meas. /alve (ft)		T	Readings (psi)		Pressure Head Outside	Depth to Water Outside		
Port No.	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft)	True Port Depth ( Dp ) ( ft )	Time
5	653	651	219.90	21630	219.90	21099			***************************************	1416
4	558	556	178.63	178,45	178.63	21,94			F 155111	1418
3	346	345	86.37	86.71	86.37	21.17			7115-1117-1117	1420
2	252	250	45,45	46.09	45,45	20.47	·			1421
1	172	171	14.28	20.74	14.28	19.89				1422
										·
						*****			77 Web B	·
						****				
С	omments:	Collar Detect	is 2' above sampl	e port					•	

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		WELL ID:	MW-4				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE:	1/28/2	て			SERIAL NO. EMS	2Soz		_
		LOCATION:	JPL				PROJECT	JPL Pasadena		_
		ELEV. TOP OF	WASTBAY CASING	3	1082.84		OPERATOR(S) L. He	nderson		
		WEATHER:	clear, Sun	NG			ATM. PRESSURE (Patm):	(start) / 4.12	finish) / Y · //	
	<b>,</b>	17 O	7-17	2'.69			Temp:	14.73	18-09	
		to Meas. ′alve (ft)		T	leadings (psi)	T	Pressure Head Outside	Depth to Water Outside		
Port No.	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)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft)	True Port Depth ( Dp ) ( ft )	Time
5	513	511	162.86	167.66	162.86	17.31				0920
4	392	390	110.19	115.10	110.19	18.41				0922
3	322	320	79.71	8538	79.71	18.89				0923
2	240	238	44.00	50.26	44.00	19.22				0925
1	150	148	14.27	21.78	2 14.27	19.10				0926
			-		dy					
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						····				

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Collar Detect is 2' above sample port

Comments:

		WELL ID:	MW-11		*		PROBE TYPE	Westbay Sampler 0-500psi		_
		DATE:	2/7/22				SERIAL NO. EMS	2508		<u>.</u>
		LOCATION:	JPL				PROJECT	JPL Pasadena		_
		ELEV. TOP OF	WASTBAY CASING	3	1139.3		OPERATOR(S) L,H	endusin_		_
		WEATHER:	dcar151	mny			ATM. PRESSURE (Patm):	(start) 14.17 (	finish) 14.15	_
	1	OTU-	204	<u>,&amp;2                                    </u>			Temp: _	23-30	16.36	
	Depth	to Meas.		<del> </del>	eadings (psi)	ı	Pressure Head Outside	Depth to Water Outside		
ort No.	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)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft ) DTW = Dp-P(ft)	True Port Depth ( Dp ) ( ft )	Time
5	639	637	201,45	179.67	201.45	21.34				1257
4	524	522	1S1,89	152.00	151,89	21,53				1300
3	429	427	110.93	109.96	110.93	20,39				1302
2	259	257	37.18	40.91	37.18	19.15				1305
1	149	147	14.27	17.32	14.27	19.36				1307
										·

		WELL ID:	MW-12				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE:	1/28/	22			SERIAL NO. EMS	250Z		_
		LOCATION:	JPL				PROJECT	JPL Pasadena		-
		ELEV. TOP OF	WASTBAY CASING	G	1102.14		OPERATOR(S)	exterson		_
		WEATHER:	Clear, Sur	ny			ATM. PRESSURE (Patm):		finish) 14.14	-
			575	# AN			Temp:	22.06	19.88	-
		to Meas. ⁄alve (ft)			eadings (psi)	·	Pressure Head Outside	Depth to Water Outside		
Port No.	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)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft ) DTW = Dp-P(ft)	True Port Depth ( Dp ) ( ft )	Time
5	548	546	173.56	157.85	173.56	22.07			38444	1521
4	436	435	124,92	124.07	124.92	22-08				1525
3	323	322	75.76	77.54	75,76	21,67				1526
2	243	272	40.86	43,53	40.86	21.03			100000	1527
1	140	140	14.24	18.36	14.24	2037				1529
					****				-	
							***			
С	omments:	Collar Detect i	s 6" above samp	ole port						

		WELL ID:	MW-14				PROBE TYPE	Westbay Sampler 0-500psi		_
		DATE:	1/20/2	2			SERIAL NO.	15 2507		_
		LOCATION:	JPL				PROJECT	JPL Pasadena		_
		ELEV. TOP OF	WASTBAY CASING	3	1173.47		OPERATOR(S) / Her	rdesson		
		WEATHER:	Clem. Si	Jony			ATM. PRESSURE (Patm):	103	finish) 19-14	
		DII	3-198	3.36		-	Temp:	19.30	19.78	
		to Meas.			eadings (psi)	1	Pressure Head Outside	Depth to Water Outside		
Port No.	From Log (Dp)	/alve (ft) From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft)	True Port Depth ( Dp ) ( ft )	Time
5	540	538	163.87	148.27	163.87	19.96				1016
4	456	454	127.37	111.78	127.37	20.51			·	1018
3	382	380	95,13	79,69	95.13	20.49				1021
2	277	275	49.35	33.97	49.35	20:35				1023
1	207	206	19-274	14.57	1922	20.11				1025
			18.85		18.85	-				
		·								

		WELL ID:	MW-17				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE: (	128/22				SERIAL NO. EMS	5 2502		•
		LOCATION:	JPL				PROJECT	JPL Pasadena		<del>.</del>
		ELEV. TOP OF	WASTBAY CASING	3	1191.21		OPERATOR(S) L. Her	nderson		•
		WEATHER:	clear, suppr	/			ATM. PRESSURE (Patm):	100	finish) /Y://	•
		UTO	- 211.	17			Temp:	20.18	19.30	-
	Depth	to Meas.		Pressure R	leadings (psi)				/ <i>U.</i> 5 •	
Port No.	From	alve (ft)	psi Inside Casing	kg/cm² Outside Casing	mH <sup>2</sup> O Inside Casing	Trans. Temp.	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
	Log (Dp)	Cable		P2			( ) ( )			
5	726	725	238.12	191.32	238.17	20.31				1243
4	582	591	175.81	130,81	175.81	20.43				1245
3	468	467	126.36	96.87	126.36	19.99				1246
2	370	369	83.80	57,08	83,80	19.35				1248
1	250	250	31.66	14.66	31.66	18.76				1249
	=5:				<b>Y</b>					
,	www									
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										·
(	Comments:	Collar Detect	is 6" above samp	ole port						

Port No.

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	WELL ID:  DATE:  LOCATION:  ELEV. TOP OF	LA COMMENT OF THE STATE OF THE							
	WEATHER:	Cleary Suns	nY			ATM. PRESSURE (Patm):		finish) 14.11 18.98	
	to Meas. alve (ft) From Cable	psi Inside Casing	Pressure R kg/cm <sup>2</sup> Outside Casing P2	eadings (psi) mH <sup>2</sup> O Inside Casing	Trans. Temp.	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 )	Time
684	687	193.50	16992	183.50	20.85				12.15
564	562	131.32	117.68	131.32	21.02				1217
424	422	70.48	65.03	70.48	20.51				1221
330	328	29.51	23.72	29,51	19,75				1222
270	268	14.26	14.18	14.26	19.39			-	1224
				, ,				-	
								·	

Comments:	Collar Detect is 6" above sample port		 

		WELL ID:	MW-19				PROBE TYPE	Westbay Sampler 0-500psi			
		DATE:	28/12	_			SERIAL NO.	15 2507	***************************************	_	
		LOCATION:	JPL				PROJECT	JPL Pasadena		-	
		ELEV. TOP OF	WASTBAY CASING	3	1142.94	- Harton		nderson		-	
		WEATHER:	cleursur	)O. /	*** ****		ATM. PRESSURE (Patm):	111 000	finish) 14.15	_	
	~	TIL	- 1110	110			Temp:	(Start) ( / ()	1 -	-	
		71m	145	190				20.96	19.63		
		to Meas. ′alve (ft)			Readings (psi)	1	Pressure Head Outside	Depth to Water Outside	,		
Port No.	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)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft)	True Port Depth ( Dp ) ( ft )	Time	
5	498	496	168.33	119.88	16833	20.81		***************************************		1317	
4	444	442	144.92	96.58	144.92	20.62		****		1314	_
3	392	390	122.36	87,76	12236	20.47				13/5	_
2	314	312	88.47	SH 55.01	88.47	20.34				1317	_
1	242	240	57,21	25.07	57.21	20.05				13/9	_
								,			
								TO DESCRIPTION OF THE PROPERTY			
								1.0000000000000000000000000000000000000			
						· · · · · · · · · · · · · · · · · · ·					
С	omments:	Collar Detect i	s 6" above samp	le port		T	7000	7000			
	_										_

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		WELL ID:	MW-20				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE:	128/22				SERIAL NO.	S 250Z		
		LOCATION:	JPL				PROJECT	JPL Pasadena		
		ELEV. TOP OF	WASTBAY CASING	3	1165.05		OPERATOR(S) Lifter			
		WEATHER: (	Jear, Suni	<b>1</b> Y	•		ATM. PRESSURE (Patm):	(start) 14,014 (	finish)	
		DI	V- 2	44.97	2		Temp:	22-36	19.58	
		to Meas. /alve (ft)			eadings (psi)		Pressure Head Outside	Depth to Water Outside	True Port Depth ( Dp )	`~.
ort No.	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)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port ( ft ) DTW = Dp-P(ft)	(ft)	Time
5	900	897	299,94	296.46	299.94	22.26				1144
4	700	647	212,75	202.81	212.75	22.67				1147
3	562	561	152,76	144.76	152.76	22-32				1149
2	392	396	78.97	73.01	78.97	21.41				1151
1	230	229	14.27	14.23	14.27	20.33				1153
				-	·					
								- 4		
	***************************************									

WELL ID:

MW-21

		WELL ID:	MW-21				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE:	2/9/2	し			SERIAL NO. CMS	7509)		_
		LOCATION:	JPL				PROJECT	JPL Pasadena		<del>-</del>
		ELEV. TOP OF	WASTBAY CASING	G	1059.10		OPERATOR(S)	MERIN		-
		WEATHER:	clean 50	אחמי			ATM_PRESSURE (Patm):	(etart)(U 1)	finish) 14.15	<b></b>
-		DI	7-117	97			Temp:	_		
	Depth	to Meas. /alve (ft)	psi	T	Readings (psi)	-	Pressure Head Outside	Depth to Water Outside	,	
Port No.	From Log (Dp)	From From		kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft)	True Port Depth ( Dp ) ( ft )	Time
5	372	371	123.71	123.90	123.71	20.69				1051
4	310	309	98.91	97.17	9891	20.42			7700	1653
. 3	240	240	68.81	6739	18.80	19.89				10.55
2	161	160	34,35	33.30	34,35	19,35	·			1058
1	90	89	14.25	14.24	14-25	19:13				1100
	·····		****							•
						·				
	, `									
(	Comments:	Collar Detect	is 2' above samp	le port				1		

Port No.

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3

	WELL ID:	MW-22				PROBE TYPE	Westbay Sampler 0-500psi	444000	
	DATE:	12/2/	7			SERIAL NO. EM.	5 2508		
	LOCATION:	JPL				PROJECT	JPL Pasadena	40.00	
	ELEV. TOP OF	WASTBAY CASING	)	1176.98		OPERATOR(S) LIF	lendeson		
	WEATHER: (	-lear, Su	my			ATM. PRESSURE (Patm):	(start) 14,08 (1	inish)	
	DI	1 - 24	15.12	•		Temp:			
	to Meas.		Pressure R	eadings (psi)		Pressure Head Outside	Depth to Water Outside		
	alve (ft)	psi Inside Casing	kg/cm² Outside Casing	mH <sup>2</sup> O Inside Casing	Trans. Temp.	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft)	True Port Depth ( Dp ) (ft )	Time
From Log (Dp)	Cable	maide odamig	P2	moide dusing	(oC)	P(II)=(P2-Patin) 2.307 Tupsi)	D144 - Dp-r (it)		
588	586	16451	157.86	164.51	19.81				0854
467	466	111.84	107,90	111.84	20.92				0856
389	387	72.84	78,42	ファダイ	20.95				0858
329	327	51,69	52.15	51,69	20.69				0900
245	243	14,56	14,90	14.56	70.22				0901
ww							***		
				-				10000	

PROBE TYPE

WELL ID:

MW-23

		VVLLL ID.	10100-23				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE:	128/22				SERIAL NO.	15 2507		_
		LOCATION:	JPL				PROJECT	JPL Pasadena	<del></del>	-
		ELEV. TOP OF	WASTBAY CASIN	G	1108.84		OPERATOR(S) ( He	ndeson	2004	•••
		WEATHER:	dearisu	nn4			ATM. PRESSURE (Patm):	(start) 1U . 19 (	finish) 14, 22	-
		MIL	1-147	(,3			Temp:	, , , , ,		<u>.</u>
	Depth	to Meas.	1 (%)	Pressure R	Readings (psi)			16.70	19.78	T
Port No.		/alve (ft)	psi	kg/cm²	mH <sup>2</sup> O		Pressure Head Outside Port (ft)	Depth to Water Outside	True Port Depth ( Dp )	
	From Log (Dp)	From Cable	Inside Casing	Outside Casing P2	Inside Casing	Trans. Temp. (oC)	P(ft)=(P2-Patm)*2.307 ft/psi)	Port ( ft ) DTW = Dp-P(ft)	(ft)	Time
5	542	540	187.75	167.50	187.75	18-39				0945
4	445	444	145.77	125.62	145.77	19.26			107	0947
3	319	318	91.20	76.37	91.20	1970				00 48
2	254	253	62.85	48.27	63.95	19.84	62.95	7/1		0949
1	174	173	28.18	14.58	28.18	19.80				0047
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									1000	
l	<u></u>									
C	omments: (	Collar Detect is	s 1' above sample	e nort						

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		WELL ID:	MW-24				PROBE TYPE			
		DATE:	2/2/2	l			SERIAL NO. EMS	2508		_
		LOCATION:	JPL				PROJECT	JPL Pasadena		_
		ELEV. TOP OF	WASTBAY CASING	3	1200.94		OPERATOR(S) L. He	nderson		_
		WEATHER:	clearis	Jnny			ATM. PRESSURE (Patm):	(start) 14.0/	finish) 14,00	_
	· · · · · · · · · · · · · · · · · · ·	UTO	-25	1.04			Temp:	21.62	23.01	
		to Meas. alve (ft)		Pressure Readings (psi)		<b>I</b>	Pressure Head Outside	Depth to Water Outside		
Port No.	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)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port ( ft ) DTW = Dp-P(ft)	True Port Depth ( Dp ) ( ft )	Time
5	678	676	199,42	180.21	199,42	22.21		1988		1138
4	554	552	145.66	131.66	145.66	22.17				1141
3	435 433		94,02	87.15	94.02	21.89				1143
2	373	371	67.15	60.53	67.15	21.83				1144
1	279	277	26.38	17.86	26.38	22.10				1146
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WELL ID:

MW-25

		WELL ID:	MW-25				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE:	128/22				SERIAL NO. 6M5	2502		-
		LOCATION:	JPL				PROJECT	JPL Pasadena		•
		ELEV. TOP OF	WASTBAY CASING	3	934.53		OPERATOR(S) L.Her	deson		•
		WEATHER:	Clearson	ny			ATM. PRESSURE (Patm):	(start) 14,28 (	finish) /4.25	•
	,	UTO	<u>- Ju</u>	18,75	5		Temp:	18.62	20-44	•
		to Meas. /alve (ft)		T	Readings (psi)	T	Pressure Head Outside	Depth to Water Outside		
Port No.	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft)	True Port Depth ( Dp ) ( ft )	Time
5	713	711	216.29	216.57	216.29	19,47		100 000 M 2010 M	3-1874-1444-A	1113
4	633	631	181.93	182.55	181.83	20.27				1114
3	503	501	125.59	126.82	125.59	20.58				1115
2	423	421	90.87	92.26	90.87	20-60				1116
1	358	357	62.61	63.43	62-61	20-53				1119
				7.000						
	:									
										j
				***************************************						
										1000
,	``	C-11 D-44	io 2! holovy same	1 4						

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

		WELL ID:	MW-26				PROBE TYPE	Westbay Sampler 0-500psi		_
		DATE:	214/20				SERIAL NO. E.M.S	S 2508		
		LOCATION:	JPL				PROJECT	JPL Pasadena		
		ELEV. TOP OF	WASTBAY CASING	3	1059.08	-	OPERATOR(S) L.H	enderson		. *
		WEATHER:	dear, S	MNV			ATM. PRESSURE (Patm):		finish) 14,26	•
		NTI	√ - <u>C</u> Q	28			Temp:	19.63	19.25	•
	Depth	to Meas.		Pressure R	eadings (psi)		T		1-11/2-2	
Port No.		alve (ft)	psi	kg/cm²	mH <sup>2</sup> O	Trans. Temp.	Pressure Head Outside Port (ft)	Depth to Water Outside Port ( ft )	True Port Depth ( Dp )	Time
	From Log (Dp)	From Cable	Inside Casing	Outside Casing P2	Inside Casing	(oC)	P(ft)=(P2-Patm)*2.307 ft/psi)	DTW = Dp-P(ft)	(ft)	Tane
2	215	212	81.43	46.48	81.43	19,54			-	1/12_
1	135 133		46.60	14.36	46.60	19.53				1114
						•				
		-				*****		***************************************		
					***************************************	*****		***************************************		
										-
(	Comments:	Collar Detect	is 2' below same	le nort					-	

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

### WELL GAUGING DATA

Project # 220128HS-1	_ Date <u> </u>	Client TideLate/
Site_JPL		

					Thickness				
	Well			Depth to	of	Volume of		Depth to	Survey
	Size	Time	Sheen /	Immiscible	Immiscible	Immiscibles	Depth to water		
Well ID	(in.)	Gauged	Odor	Liquid (ft.)	Liquid (ft.)	Removed (ml)	(ft.)	(ft.)	or TOC'
MW-1	4	0800		1			27.42	Pedi pumb	
MW-5	4	1450		1 1 5 1 1		t t t	134.33	135.55	1 1 1 1 1 1
MW-6	4	1228		1 1 1 1 1		1 1 1 1 1 1		238,23	
MW-7	4	1440		 		 	DRY	768,02	1 1 1 1 1 4 1
MW-8	4	1430		1		 	PRY	20210	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MW-9	4	0818		1 1 1 1 1 1			20.66	Vedio	1 1 1 1 1
MW-10	4	1300		1 1 1 1 1		1 1 1 1 1 1	PM	15 pt	<b>3</b>
MW-13				! ! ! !			PARILET	) OVER	
MW-15	4	1430		1 1 1 1 1		 	-PAPULET 32.85	Dediging	1
MW-16	4	1500		1 1 1 1 1 1			284.36		
		1 1 1 1 1 1		\$ 2 2 5 2 5			1 t 1 t 1		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1			 		1 1 1 1 1
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		: : : :				; ; ; ;	1 1 1 1 1 1	: : : : :	: : : : : : : :
				 			1		1 1 1 1

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

WELL ID: MW-3	PROBE TYPE Westbay Sampler 0-500psi
DATE: 2-18-22	SERIAL NO. FMS 2508
LOCATION: JPL	PROJECT JPL Pasadena
ELEV. TOP OF WASTBAY CASING 1100.34	OPERATOR(S) L-Handerson
WEATHER: CLEGY, SVIMY	ATM. PRESSURE (Patm): (start) 14-20 (finish) / 4-26
	Temp: 20.40 17.67

	Depth	to Meas.		Pressure R	eadings (psi)				17.47	
Port No.	Port V From Log (Dp)	alve (ft) From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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
5	653	651	218.80	221.42	218.80	21.08		AND		1644
4	558	556	172.50	180.35	177.50	21-04				1045
3	346	345	25.28	88.58	95.18	1920		***************************************		1048
2	252	250	44.39	48,02	44.39	18.62				1050
1	172	170	14.31	15-31	14-31	18.02			And the second s	1652
						ATT MANAGEMENT TO THE TOTAL THE TOTA				
						· · · · · · · · · · · · · · · · · · ·		1970		
						~~~				
								· · · · · · · · · · · · · · · · · · ·		
			-							

WELL ID: MW-4	PROBE TYPE Westbay Sampler 0-500psi
DATE:	SERIAL NO.
LOCATION: JPL	PROJECT JPL Pasadena
ELEV. TOP OF WASTBAY CASING 1082.84	OPERATOR(S)
WEATHER:	ATM. PRESSURE (Patm): (start) (finish)
	Temp:

	Depth t	to Meas.		Pressure R	eadings (psi)			D 44 W 4 G 4 11			
Port No.		alve (ft)	psi	kg/cm²	mH²O	Trans. Temp.	Pressure Head Outside Port (ft)	Depth to Water Outside Port ( ft )	True Port Depth ( Dp )	Time	1
	From Log (Dp)	From Cable	Inside Casing	Outside Casing P2	Inside Casing	(oC)	P(ft)=(P2-Patm)*2.307 ft/psi)	DTW = Dp-P(ft)	(ft)		
5	513										
4	392							2 TO 10 TO 1			
3	322									• -	
2	240	N. Assession	- YAY	RILLE D		NER				1000	
1	150										
										-	
											1.
								·			
		-									

Port No.

5

	WEATHER: (	MW-11 18/27 JPL WASTBAY CASING	7	1139.3		PROJECT  OPERATOR(S)  ATM. PRESSURE (Patm):	Westbay Sampler 0-500psi  Solution  JPL Pasadena  Polles Cor  (start) 14 11 (1)	finish) 19,12 18,54	- - - -	
	to Meas. alve (ft) From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	Pressúre 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	
639 524 429	637	201.69	179.57	201.69	23.52				1404	:
259 149	257	37.64 14.20	71.97	37.64	19.63				1410	

WELL ID: MW-12		PROBE TYPE	Westbay Sampler 0-500psi	
DATE:		SERIAL NO.		
LOCATION: JPL		PROJECT	JPL Pasadena	
ELEV. TOP OF WASTBAY CASING	1102.14	OPERATOR(S)		
WEATHER:		ATM. PRESSURE (P	Patm): (start) (finish)	_
		T	emp:	

	Depth t			Pressure R	teadings (psi)					
Port No.	From Log (Dp)	alve (ft) From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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
5	548									
4	436		- Can	not ,	90 Pa	~ <i>F</i>	130/24	-		
3	323			(	0 10		100 / /			
2	243		-7	nacco	15/b// -			18045	***************************************	
1	140			7 700000			`.			
		***						Marie I - Tanada I	· MATELLA MATE	
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										. 7
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						<b></b>				
WELL ID:	MW-14				PROBE TYPE	Westbay Sampler 0-500psi				
DATE:	2/10/12				SERIAL NO. EM	15 2508		•		
LOCATION:	JPL				PROJECT JPL Pasadena					
ELEV. TOP OF	WASTBAY CASING	G	1173.47		OPERATOR(S) / Menderson					
WEATHER:	Clear Sur	ny			ATM. PRESSURE (Patm): (start) 14, 12 (finish) 14,12					
		/			Temp: 22-19 19,49					
o Meas.		Pressure R	eadings (psi)					Γ		
alve (ft) From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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 )			
								4		

	Depth	to Meas.		Pressure R	eadings (psi)					
Port No.	From Log (Dp)	/aive (ft) From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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
5	540	538	16334	148 32	163.34	21.74		ATTEN TO THE PARTY OF THE PARTY	VIII VIII VIII VIII VIII VIII VIII VII	1317
4	456	454	126.73	112.03	126.73	21.13				1315
3	382 -	380	94.57	79.97	94.57	20.65		7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.		13 17
2	277	275	48.92	34.30	48.92	20.03				13 18
1	207	206	18.42	14.24	18.42	19.64				1320
						1				7
										7.00
										-
										***************************************
								4		
	*****									
										11-7700000000

Comments:	Collar Detect is 6" above sample port

WELL ID: MW-17		PROBE TYPE	Westbay Sampler 0-500ps	si
DATE:	,	SERIAL NO.		
LOCATION: JPL		PROJECT	JPL Pasadena	
ELEV. TOP OF WASTBAY CASING	1191.21	OPERATOR(S)		THE STATE OF THE S
WEATHER:		ATM. PRESSURE (Pat		(finish)

	Depth	to Meas.		Pressure Readings (psi)						
Port No.		alve (ft)	psi	Incide Casing Countries Contribution MHTO Trans. Temp.		Trans Temp	Pressure Head Outside Port (ft)	Depth to Water Outside Port ( ft )	True Port Depth ( Dp )	Time
	From Log (Dp)	From Cable	inside Casing			P(ft)=(P2-Patm)*2.307 ft/psi)	DTW = Dp-P(ft)	(ft)	Time	
5	726									
4	582								10000000	
3	468		Ph	RKKI	<u> </u>	OVER				
2	370			<del></del>		,				
1	250									
										·

		WELL ID:	MW-18				PROBE TYPE	Westbay Sampler 0-500psi		
		DATE: 2	118/22				SERIAL NO. EMS	2508		-
		LOCATION:	JPL				PROJECT	JPL Pasadena		-
		ELEV. TOP OF	WASTBAY CASING	G	1225.41		OPERATOR(S) / 1/4	ndeson	***************************************	-
		WEATHER:	clearsin	<b>1</b>			ATM. PRESSURE (Patm):	114 111	finish) 14-13	-
				/			Tomp:	21.44	17.94	-
		to Meas. ′alve (ft)			eadings (psi)	T	Pressure Head Outside	Depth to Water Outside		
Port No.	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)	Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Port (ft)	True Port Depth ( Dp ) ( ft )	Time
5	684	682	193.17	163.46	183.17	20.96			SO THE STATE OF TH	1613
4	564	562	131.03	115.35	131.03	20.82				1015
3	424	422	70.19	65.84	70.19	19.82		***************************************		10 17
2	330	328		25.69	29.31	18.84			1780 TO THE TOTAL THE TOTAL TO THE TOTAL TOT	10 19
1	270	268	14,29	14.25	14,29	18.36				1020
					***					
$\perp$						***************************************				
			****							
				-						
	omments:	Collar Detect i	is 6" above samp	ole port						

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

WELL ID: MW-19	PROBE TYPE Westbay Sampler 0-500psi
DATE: 2-18-22	SERIAL NO. EMS 2508
LOCATION: JPL	PROJECT JPL Pasadena
ELEV. TOP OF WASTBAY CASING 1142.94	OPERATOR(S) C. Henriessan
WEATHER: CLEON, SUNNY	ATM. PRESSURE (Patm): (start) $14.16$ (finish) $14.19$
, ,	Temp: 20.90 /2 /2

	Depth	to Meas.		Pressure R	eadings (psi)					
Port No.	From Log (Dp)	/alve (ft)  From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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
5	498	496	168,20	118.30	168.20	20.27				1114
4	444	442	144.78	9636	144.78	20.05				1116
3	392	390	122.12	87.52	122.12	19,85		300000		1117
2	314	312	88.27	54.27	88-27	19.61				11/8
1	242	240	57.09	25,13	57.09	19.37			V 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1119
								-		
						1				

WELL ID: MW-20	PROBE TYPE Westbay Sampler 0-500psi				
DATE: 2-18-22	SERIAL NO. EMS 2502				
LOCATION: JPL	PROJECT JPL Pasadena				
ELEV. TOP OF WASTBAY CASING 1165.05	OPERATOR(S) L. Hendelson				
WEATHER: CLOW, SUM	ATM. PRESSURE (Patm): (start) 14.16 (finish) /6.16				
	Temp: 19.87 17.56				

	Depth to Meas.			Pressure R	eadings (psi)				17.00	
Port No.	Port V From Log (Dp)	raive (ft) From Cable	psi Inside Casing 207.95	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp.	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
5	900	897	299.03	295.78	297.95	22.362		71100		1936
4	700	697	211.08	199.81	211.08	22.90		**************************************		09 44
3	562	561	151.82	140.23	151.32	21.883	29			09 460
2	392	390	77-13	72.34	77,13	19.61			700 7 10 10 10	09 49
1	230	229	14.29	14.27	14.29	18-21				0951
				•						
									*	
									***************************************	
							,			
							***************************************			

Comments:	Collar Detect is 6" above sample port

WELL ID: MW-21	PROBE TYPE Westbay Sampler 0-500psi
DATE: 2-18-22	SERIAL NO. EMS 0,50%
LOCATION: JPL	PROJECT JPL Pasadena
ELEV. TOP OF WASTBAY CASING 1059.10	OPERATOR(S) L. HENDERSON
WEATHER: CLEUR, SUM	ATM. PRESSURE (Patm): (start) 14. 21 (finish) 14. 22
	Temp: 20-27 19.08
to Meas. Pressure Readings (psi)	Brooning Head Outside   Double Wilder Outside

	Depth to Meas. Port Valve (ft)  From From Log (Dp) Cable			Pressure R	eadings (psi)	•	-			
Port No.			psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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
5	372	371	125.08	124.02	125.08	20.22				12-09
4	310	309	98.09	97.18	98-09	20.18				11/15
3	240	240	68.07	67.34	68.07	19.60		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	W4 1941-4	12/2
2	161	160	33.69	33.24	33,69	19.34				12-14
1	90	89	14,27	14.29	14.27	19.17				12-15
							***************************************			

WELL ID: MW-22	PROBE TYPE Westbay Sampler 0-500psi
DATE:	SERIAL NO.
LOCATION: JPL	PROJECT JPL Pasadena
ELEV. TOP OF WASTBAY CASING 1176.98	OPERATOR(S)
WEATHER:	ATM. PRESSURE (Patm): (start) (finish)
	Temp:

	Depth to Meas.			Pressure R	eadings (psi)					
Port No.	From	From	psi Inside Casing	kg/cm² Outside Casing	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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
	Log (Dp)	Cable		P2						
5	588						·			
4	467			_						
3	389		PARK	(60	(	BUE R				
2	329		,							
1	245									
										-
									·	

Port No.

2

	WEATHER:	MW-23  JPL  WASTBAY CASING  LPOV JUY	my	1108.84		PROBE TYPE  SERIAL NO. PROJECT  OPERATOR(S)  ATM. PRESSURE (Patm):  Temp:	- - -		
Port V From	to Meas. /alve (ft) From	Pressure Ro psi kg/cm² Inside Casing Outside Casing		mH <sup>2</sup> O Inside Casing	Trans. Temp.	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
Log (Dp) 542	SY 0	127.61	167.49	127.61	22.41	to the state of th	Sim operation		1751
445	444	145.67	125.98	145,67	22.27		MP1 6-11	110000000000000000000000000000000000000	1251 1253
319	318	90.93	76.99	90.93	21178				1254
254	253	62.77	48.90	62.77	21.31				1255
174	173	28-01	14.77	28.01	20-67				1258
						381-474-1			
						-			
						***************************************			
								11000 b	
1	1			i	I	į.			

Collar Detect is 1' above sample port

				17011		ASUNEWIENT LOG SHE	EI				
	WELL ID:	MW-24	:			PROBE TYPE	Westbay Sampler 0-500psi				
	DATE:	118/12				SERIAL NO. EMS	5 250%				
	LOCATION:	JPL				PROJECT JPL Pasadena					
	ELEV. TOP OF	WASTBAY CASING	3	1200.94		OPERATOR(S) L.1-lenderson					
	WEATHER:	dearson	my			ATM. PRESSURE (Patm): (start) \ \( \frac{1}{4} \) (finish) \( \frac{1}{4} \)					
		•	,			Temp:	22.31	22.46			
	to Meas.		Pressure R	eadings (psi)				True Port Depth (Dp)			
Port V	/alve (ft)	psi	kg/cm²	mH <sup>2</sup> O	Trans. Temp.	Pressure Head Outside Port (ft)	Depth to Water Outside Port ( ft )				
om (Dp)	From Cable	Inside Casing	Outside Casing P2	Inside Casing (oC)		P(ft)=(P2-Patm)*2.307 ft/psi)		(ft)			
78	670	199.03	178.38	199.03	22.55				17		
54	552	145,25	131.11	145.25	22.32						

Time

Port No.

	Log (Dp)	Cable	miside Cashiy	P2	Inside Casing	(oC)	P(ft)=(P2-Patm)*2.307 ft/psi)	DTW = Dp-P(ft)	(π)	,
5	678	670	199.03	178.38	199.03	22.55				1336
4	554	552	145.25	13/11	145.25	22.33		7-40-00-4 (10-40-5-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4 (10-40-6-4-4-4 (10-40-6-4-4 (10-40-6-4-4-4 (10-40-6-4-4-4 (10-40-6-4-4-4-4 (10-40-6-4-4-4-4 (10-40-6-4-4-4-4-4-4-4-4-4-4 (10-40-6-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4		13 20
3	435	433	93.76	96,19	93.76	22.04		779+6		1341
2	373	371	66.98	59.82	66.98	21.48				D 43
1	279	277	26.18	20.764	26.18	22.00				1346
							10000	9994444		
										(
			·							
									3-33143-3244	

WELL ID: MW-25	PROBE TYPE Westbay Sampler 0-500psi
DATE: 2-18-22	SERIAL NO. FMS 2 SO8
LOCATION: JPL	PROJECT JPL Paṣadena
ELEV. TOP OF WASTBAY CASING 934.53	OPERATOR(S) L. Henclerson
WEATHER: CLEON, SVYIN,	ATM. PRESSURE (Patm): (start) 14.24 (finish) 14.28
,	Temp: 15.00 19.95

	Depth to Meas.			Pressure R	eadings (psi)				1	
Port No.	From Log (Dp)	alve (ft) From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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
5	713	711	216.25	216.63	216.25	19.57			The second secon	0843
4	633	631	191.78	182.60	141.78	20.48			VVD10,000 100	0845
3	503	Soi	125.48	126.87	125,48	20.46				0850
2	423	421	90.80	92.28	90.80	20.34			2000	0852
1	358	<u>357</u>	62.54	63,99	62.54	20.16				0854
				-		•			- '	
					······					
			· .							,
									,	

Comments: Collar Detect is 2' below sample port

Port No.

From Log (Dp) 215 135

Comments:

	WELL ID:	MW-26				PROBE TYPE	Westbay Sampler 0-500psi		-	
	DATE:				····	SERIAL NO.			_	
	LOCATION:	JPL				PROJECT.	JPL Pasadena		-	
	ELEV. TOP OF	WASTBAY CASIN	G	1059.08		OPERATOR(S)			2	
	WEATHER:				•	ATM. PRESSURE (Patm):	(start) (	(finish)		
						Temp:		- maria	•	
	to Meas.		Pressure R	Readings (psi)		Pressure Head Outside	B 44 W 4 4 4 4 4	T	,	
- Ροπ om (Dp)	Valve (ft) From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)	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 )	Ті	me
15				-						
35						TWO YES				
							73110411141			
	_ (	DATE	L	OCKE	D .	TO PACCES	SS UÉ	11-	W - 1997	*
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nts:	Collar Detect	is 2' below samp	le port							