ATTACHMENT 4: FIELD LOGS

This attachment contains the groundwater sample collection field logs for the relatively shallow standpipe monitoring wells (MW-1, MW-5 through MW-10, MW-13, MW-15, and MW-16), as well as the field data sheets for the WestbayTM multiport wells (MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-26). Groundwater sample collection for the 2nd Quarter 2018 sampling event was conducted by Blaine Tech Services, Inc.

Project #:	0804	17-HH1	<u> </u>		Site:	JPL						
Sampler:	Kt				Date: u	4.27.10						
Well I.D.:	MV	₩-1			Well Dia	meter: 2	3 4 6	8				
Total Well	Depth ((TD):	120.00		Depth to Water (DTW): 24.85							
Depth to Fi	ree Prod	uct: _			Thickness of Free Product (feet):							
Referenced	l to:	PVC	Grade		Flow Cell	l Type		YSI 556				
DTW with	80% Re	charge	e [(Height of	Water Co	lumn x 0.20	0) + DTW]]: 48.28					
Purge Method:		Positive	able Bailer e Air Displacemen e Submersible	2" I	Waterra Redifio pump traction Pump	117.15	Sampling Method Other	Disposable Bailer Extraction Port Dedicated Tubing				
3 tappo						l Diameter Mul 1" 0.04	tiplier Well Diameter					
76.1 1 Case Volume	Gals.) X	3 pecified V	$\frac{2}{\text{Olumes}} = \frac{2}{Calci$	28.4 Gals	ls.	2" 0.16 3" 0.37	6"	1.47 radius ² * 0.163				
		T	,	Taled Volume		T	T					
Time	Temp	pН	Cond. (mS/cm or (uS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW Observatio ns				
0922	59.5	7.66		3	2.06	134	38	24.93				
0935	59.8	7.64	572	3	0.44	131	76	25.26				
0940	59.7	7.77	572	3	0.35	130	174	25.50				
1001	60.0	7.79	571	3	0.32	126	152	25.				
1014	60.2	7.70	572	3	0.30	128	190	25.				
1027	60.3	7.70	572	2	0.28	127	20228.5	25.				
							71114					
Did well dev	water?		Yes	(M)	Gallons ac	tually evac	cuated: 228	5				
Sampling Da	ate: 4.	27.18		Sampling	Time: 103	30	Depth to Wate	r: 25.				
Sample I.D.:	: Mw	1-1			Laboratory	": BC						
Analyzed for	r: See	Coc			Other:							
EB I.D. (if a				@ .	Duplicate I	I.D. (if app	licable):					
FB I.D. (if a _l	pplicabl	e):		(a)	Analyzed for:							
D.O. (if req'o	d):		Pre-purge:		mg/L	Post-	-purge:	mg/ _L				
O.R.P. (if red	q'd):		Pre-purge:		mV	Post-	-purge:	mV				

WELLID: MW-3	PROBE TYPE AUSTOUS
SAMPLING DATE(S) 09/23/18	SERIAL NO. FMS 2502
LOCATION: JPC	PROJECT: JPL
water level inside casing: 174, 40	OPERATOR(S) 1, HO aux
ATM. PRESSURE (PSI): (Start) 14/03 (Finish) 14/05	WEATHER Clear

		Probe to Top Collar			sts / Position) / (lower prot						tion Checks oort in MP casing)				F	ield Paramet	ers		***************************************		Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Ореп Valve		Close Valve/ Shoe in		Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen(ppm)_ TWG L	ORP (mv)	Sample Time	Sample ID
5		\sim	V	V.	V	V	22734	V	235.01	٧	235,01	V	22734	17,4	782	7,31	10		214	0745	mw-3-5
4		V	V	V	V	V	186,07	ν	194,93	V	194,93	V	186,07	7.9	177	7,45	40		230	100 A	mn-3-4
3		V /	$\sqrt{}$	~	V		13,78	V	103,19	\checkmark	103.20	V	93,78	176		7,65		5,59			mw-3-3
12	Ì	V			V	V	52,51	V	62,58	V	68,58		58.81	18,3	619	7,52	5		210	0915	mw-3-2
Ľ	2	1	V	V	V	V	58,83	V	62.59	V	67.58 62.59	V	5283	1	1-4-	1		122			11111
	3	V/	V/	V	V	V	52,88	V	69157	V		_	52,88								
	4	V_	\ \	V	V	V	52,89			V	62.60		52,89				· · · · · · · · · · · · · · · · · · ·				
	5	V_{i}	V	V	V	1	52.88	V		V	62.59		_								
		V	V	1	V	V	18,08	V	31.36		31,36		18:08	20.2	618	7,40	5	4,73	803	1100	mw-3-1
	ı i													17. 120	1					7.00	
								Π													
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								Г													
								Г													
								T													
														_							

TB-4-642318 P-13-4-042318 SB-2-042318

WELL ID: MW-4	PROBETYPE Westbur
SAMPLING DATE(S) 04/19 //8	SERIAL NO. EVNS 2502
LOCATION: JPL	PROJECT: JPL
WATER LEVEL INSIDE CASING: 15/127	OPERATOR(S) T. Hacus
ATM. PRESSURE (PSI): (Start) 14, (/ (Finish) 14, 12	WEATHER Clear

		Probe to Top Collar		Function Tes top of collar)					Sample Co (probe at sample)						FI	eld Paramet	ers				Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valv <i>el</i> Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Sand Probe	Pressure in MP Casing (psl)	Shoe Qut	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm) MG IL	ORP (mv)	Sample Time	Sample ID
5)	V_{\perp}	V	\mathcal{V}_{\downarrow}	V_{\perp}	V	17642	V	184,21	U	84,21	\mathcal{V}	176172	14.8	695	681	[]	5:65	128	0745	mw-4-5
4	1	V_{\perp}	\checkmark	\nearrow	V	V	123,86	V	13184	7	31.84	V		14,2	803	717	7	523	138	0815	mw-4-4
3	1	V	V	V	V	V	93.37	V	101.51	V	101.51	V	93,37	1716	1646	7,33	Ņ.	5.61	130	0900	mu-4-3
2	1	V_{\perp}	V	V	V		57.56	V	6604	V	604	V	57,50	14.4	1246	745	200	5.05	197	0935	mw-4-2
	2	V	V	V	V	V	57,58	V	66.05	2	da 05	>	57158				,				
	3	V	V	V	V	V	57,60	V	66008	V	6108	~	57,60								
	4	V_	\	V	V	V	57,61	レ	66007	V	66.07	ン	57.61								
	5	V	\ -			V	57.58	1	66,05	i	40,05	V	57.58								ız •
	1		1	V	V	1	18,30	Y	31,70	V	3/170	V	18130	12.9	465	79	3	4,89	201	1145	mw-4-1
	ュ				V	1/	18.31	V	31.68	1	31.68	V	18,31	8							
	(,	\	~	V		V	18134	V	31.71	4	31.71	V	18,34								
										П											
										П											
								T													
								T		\Box										 	

Comments: TB-2-64/4/18

WEIT	MONIT	ORING	DATA	SHEET
VVP/I/I/	VICTOR	UKIINUT	DAIA	SHEEL

Project #: /804	Site: JPL
Sampler: 4	Date: 4.26.18
Well I.D.: Mw-5	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 140.00	Depth to Water (DTW): /0/.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVP Grade	Flow Cell Type YSI 556

Purge Method:	Bailer	Waterra	Sampling Method	: Bailer
J	Disposable Bailer	2" Rediflo pump Dē	70.	Disposable Bailer
	Positive Air Displacement	Extraction Pump	(22.02)	Extraction Port
	Electric Submersible	Other	(38.93)	Dedicated Tubing
			Other	<u>.</u>

n 000	Well Diameter	Multiplier	Well Diameter	Multiplier
3 gpm	1"	0.04	4"	0.65
	2"	0.16	6"	1.47
26.3 (Gals.) X $= 75.9$ Gals.	3"	0.37	Other	radius ² * 0.163
1 Case Volume Specified Volumes Calculated Volume				

			Cond.					
	Temp		(mS/cm or	Turbidity	DO (17)	077 TV	C-1- D1	DTW -Observations
Time	(°F)	pH	HS/CTB)	(NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	-Observations
0840	65.8	6.84	569	4	0.89	126	13	101.16
0844	65.9	6.85	572	3	0.85	129	26	101.16
0648	65.9	6.85	577	3	0.90	131	39	101.16
0852	66.0	6.85	579	3	0.78	130	52	101.16
0856	66.1	6.85	583	2	0.76	129	65	101.16
0902	66.1	6.85	581	2	0.75	130	76	101-16
								,
Did well de	water?		Yes (ND	Gallons ac	tually evac	cuated: 76	
Sampling D	ate: 🚜	4.26	,.10	Sampling	Time: 09	05	Depth to Wate	r: 101.16
Sample I.D.	: M W	-5			Laboratory	: BC		
Analyzed for	or:	Sel	٥c				Other:	
EB I.D. (if a	applicab	le):		@ Time	Duplicate l	.D. (if app	olicable):	
FB I.D. (if a				@ Analyzed for:				
D.O. (if req		-	Pre-purge:		mg/L	Post	-purge:	$^{ m mg}/_{ m L}$
O.R.P. (if re			Pre-purge:		mV	Post	-purge:	mV

			WELL N	IONITO	RING DAT	TA SHEET	Γ	<i>∕€</i> €		
Project #:	1804				Site: J	PL				
Sampler:	KT				Date: 4.2	.6.18				
Well I.D.:	mw-6				Well Diam	neter: 2	3 4 6	8		
Total Well	Depth (ΓD): 2	245.00 (01	ēD .	Depth to V	Vater (DTV	W): 217.64			
Depth to Fr	ee Produ	uct: _			Thickness	of Free Pr	oduct (feet): -			
Referenced		ĮVÕ	Grade		Flow Cell	Type		YSI 556		
DTW with	80% Re	charge	[(Height of	Water Col	umn x 0.20) + DTW]	: 223.11			
Purge Method:		Positive	ble Bailer Air Displacement Submersible		Waterra RediffDpump raction Pump	27.36	Sampling Method: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing		
3 gpm						" 0.04	iplier Well Diameter 4"	Multiplier 0.65		
17.7 (1 Case Volume	Gals.) X Sp	3 pecified V		3.3 Galadated Volume		2" 0.16 3" 0.37	6" Other	1.47 radius ² * 0.163		
Time	Temp	pН	Cond. (mS/cm or ptS/em)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW Observations		
0754	68.4	7.05	1056	13	3.44	162	б	218.12		
0756	69.3	7.02	1073	9	3.16	160	16	218.12		
0750	70.5	7.00	1082	7 '	2.63	156	24	218.13		
0800	70.6	6.99	1094	6	2.80	155	32	218.13		
0802	70.5	6.99	1104	5	2.64	152	40	218.13		
0804	70.4	6.98	1103	5	2.67	150	48	216.13		
0806	70.4	6.99	1109	5	2.70	149	54	218.13		
Did well de	water?		Yes (No)	Gallons ac	tually evac	cuated: 54			
Sampling D	ate: 4	26.10		Sampling	Time: 08	30%	Depth to Wate	r: 218.13		
Sample I.D.	.: Mw-	Le l	(msmsd)		Laboratory	1: BC				
Analyzed for	or:	See	CoC				Other:			
EB I.D. (if	applicab			@ Time	Duplicate	I.D. (if app	olicable):			
FB I.D. (if a	applicab	le):		@ Time	Analyzed for:					
D.O. (if req			Pre-purge:		mg/L	Pos	t-purge:	$^{ m mg}/_{ m L}$		
O.R.P. (if re			Pre-purge:		mV	Pos	t-purge:	mV		

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			WELL N	MONITO	KING DA	IA SHEE!	<u>. </u>			
Project #:	1804				Site:	JPL				
Sampler:	KT					1.26.10				
Well I.D.:	mw-7	,			Well Dian	neter: 2	3 4 6	8		
Total Well	Depth (ΓD):	267.52		Depth to V	Water (DT)	W): 243.72			
Depth to Fr	ree Prod	uct:			Thickness	of Free Pr	oduct (feet): -			
Referenced	to:	PV)	Grade		Flow Cell	Туре	A. W. L. II.	YSI 556		
DTW with	80% Re	charge	[(Height of	Water Col	lumn x 0.20)) + DTW]	: 248.46			
Purge Method:		Positive	able Bailer e Air Displacement e Submersible	•	Waterra (edi)lo pump raction Pump	23.20	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing		
2 gpm						1" 0.04		0.65		
_	(Gals.) X	3 pecified V		Gals	s.	2" 0.16 3" 0.37	6"	1.47 radius ² * 0.163		
Time	Temp	pН	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations		
1309	74.4	7.21	784	21	5.15	101.50	8	243.78		
1313	74.3	7.19	792	16	5.00	100.	16	243.79		
1317	74.0	7.20	795	15	5.02	96	24	243.79		
1321	73.8	7.19	796	/3	5.07	89	32	243.79		
1325	73.8	7.19	793	12	5.10	94	40	243.79		
1328	73.8	7.19	791	12	5.09	92	47	243.79		
Did well de	water?		Yes (No		tually evac	cuated: 47			
Sampling D	ate: 4	.26.18)	Sampling		1 3 0 1330	Depth to Wate	r: 243.79		
Sample I.D.					Laboratory	y: BC				
Analyzed fo	or: <u>S</u> 4	er coc					Other:			
EB I.D. (if a					Duplicate 1	I.D. (if app	olicable):			
FB I.D. (if a	ipplicab!	le):		@ Time	Analyzed f	for:				
D.O. (if req'	d):		Pre-purge:		mg/ _L Post-purge:					

mV

Post-purge:

mV

Pre-purge:

O.R.P. (if req'd):

WELL	MONIT	ORING DA	TA SHEET

	WEEL MO	WITOKING DATA SHEET	
Project #: 180	०५	Site: عور	
Sampler: KT		Date: 4.26.18	
Well I.D.: Mu)-6	Well Diameter: 2 3 4 6 8	
Total Well Dept	h (TD): 205.00	Depth to Water (DTW): 166.71	
Depth to Free Pr	roduct:	Thickness of Free Product (feet): ——	
Referenced to:	PVC Grade	Flow Cell Type YSI 5:	56
DTW with 80%	Recharge [(Height of Wat	er Column x 0.20) + DTW]: 175.96	
Purge Method:	Bailer Disposable Bailer	, and a second s	Bailer sable Bailer

	Electric Submersible	Other_		_			Dedicated Tubing
						Other:	
3 9PM				Well Diameter	Multiplier 0.04	Well Diameter	Multiplier 0.65
23.5 (Gals.) X	3 =	70.7 _G	als.	2" 3"	0.16 0.37	6" Other	1.47 radius ² * 0.163
1 Case Volume S	pecified Volumes C	alculated Volum	ne II				

Extraction Pump

Extraction Port

Positive Air Displacement

p				·	r		,	
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW -Observations
1103	72.4	7.05	941	10	5.55	10 1-	12	169.09
1106	272.6	7.02	919	7	5.63	103	24	169.12
1109	72.5	7.02	889	6	5.70	100	36	169-13
1112	72.7	7.01	673	5	5.68	99	40	169-13
1115	72.8	7.00	670	3	5.06	96	60	169.13
(110	72.9	7.00	866	3	5.67	98	71	169-13
	·		WILLIAM					
Did well de	water?		Yes (No	Gallons act	tually evac	cuated: 71	
Sampling D	ate: 4	.26 .19	ð	Sampling	Time: (12	<u> </u>	Depth to Water	r: <i>169.₁3</i>
Sample I.D.	: mw-	છ	(MSMSD		Laboratory	: BC		
Analyzed fo	r:	See	CoC				Other:	
EB I.D. (if a	pplicabl	le):		@ Time	Duplicate I	.D. (if app	licable):	
FB I.D. (if a				@ Time	Analyzed f			
D.O. (if req'			Pre-purge:		mg/L	Post	-purge:	mg/L
O.R.P. (if re			Pre-purge:		mV	mV		

			W JEJEJEJ I	1011110			.			
Project #:	6004				Site: JPL					
Sampler:					Date:	4.27.18				
Well I.D.:	MW-9				Well Diam	neter: 2	3 A 6	8		
Total Well	Depth (TD):	(08.00		Depth to Water (DTW): 19.00					
Depth to F	ree Prod	uct:			Thickness	of Free Pr	oduct (feet):			
Referenced		PVC	Grade		Flow Cell	Туре		YSI 556		
DTW with	80% Re	charge	[(Height of	Water Col	lumn x 0.20) + DTW]	: 28.90			
Purge Method:		Positive	ble Bailer Air Displacemen Submersible		Waterra Rediflo pump raction Pump	(49.00)	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing		
3gpm							tiplier Well Diameter	Multiplier		
	Gals.) X Sp	3 pecified V	olumes = $\frac{95}{\text{Calcu}}$	Gals		" 0.04 !" 0.16 " 0.37	6"	0.65 1.47 radius ² * 0.163		
Time	Temp	pН	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW Observations		
0817	65.1	6.85	514	10	5.03	163	KT 15 16	19.32		
0822	65.0	6.98	535	8	5.55	148	3032	19.35		
0627	65.0	6.99	534	٦	\$5.40	142	48 40	19.35		
0632	64.9	7.00	586	4	5.42	143	4004	19-35		
0837	64.9	7.00	537	5	5.40	141	7860	19.35		
0842	64.9	6.99	535	6	5.39	140	2006	19.75		
Did well de	water?		Yes (No	Gallons ac	tually evac	cuated: 96			
Sampling D	ate: 4	27.18		Sampling	Time: 08	15	Depth to Wate	er: 19.35		
Sample I.D.	.: mw	-9	(MSMSD		Laboratory	: BC				
Analyzed for	or: 5	ee C	 De		***************************************		Other:			
EB I.D. (if	applicab	le):		@ Duplicate I.D. (if applicable):						
FB I.D. (if a				@ Analyzed for:						
D.O. (if req		-	Pre-purge:		$^{\mathrm{mg}}/_{\mathrm{L}}$	Post	-purge:	mg/ _L		
O.R.P. (if re			Pre-purge:	mV Post-purge: r						

	A	~			7					
Project #:	16041	16-KT	(Site: JPL					
Sampler:	KT				Date:	4.27.10				
Well I.D.:	mw-10)			Well Di	ameter: 2	3 4 6	8		
Total Well l	Depth (ΓD): <u></u> [ι	55		Depth to	o Water (DTV	W): 119.80			
Depth to Fro	ee Prodi	uct: _			Thickne	ess of Free Pr	oduct (feet):			
Referenced		PVC	> Grade		Flow Ce	ell Type		YSI 556		
DTW with 8	80% Re	charge	[(Height of	Water Col	lumn x 0.	.20) + DTW]:	: /26.64			
Purge Method:		Bailer Disposal Positive	ble Bailer Air Displacement Submersible	2" R	Waterra Redffo pump raction Pump	DED.	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing		
2gpm					<u>y</u>	Well Diameter Multi	tiplier Well Diameter			
100	~ 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3	= 69	8-6 Gals		2" 0.16 3" 0.37	6"	1.47 radius ² * 0.163		
1 Case Volume	Gals.) X Sp	pecified V		lated Volume			<u> </u>	144145		
Time	Temp	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/	/L) ORP(mV)	Gals. Removed	DTW Observations		
1230	66.9	6.92		5	0.92	156.7	11.5	19.89		
1243	67.5	6.94	884	4	0.81	122.4	23.0	119.92		
1249	68.2	694	693	3	0.67	116.2	34.5	119.92		
1255	69.4	695	899	3	0.62	111.0	46.0	119.92		
13061301	69.5	6.95	904	3	0.58	109.3	57.5	119.92		
1507	69.6	6.95	905	3	0.54	100.2	69.0	119.92		
Did well dev	water?		Yes (ND	Gallons	actually evac	cuated: 69-0	2		
Sampling D	ate: 4	.27.18)	Sampling	Time:	1310	Depth to Wate	r: 119.92		
Sample I.D.	: mw	-10			Laborato	ory: BC		- Indoornaalise		
Analyzed fo	r: §	See Coo	ა				Other:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
EB I.D. (if a	ipplicab	le):			Duplicat	te I.D. (if app	olicable):			
FB I.D. (if a	pplicabl	le):		@ Time	Analyze	d for:				
D.O. (if req'	d):		Pre-purge:		mg/ _L	Post	t-purge:	mg/ _L		
O.R.P. (if re	q'd):		Pre-purge:		mV Post-purge:					

WELLID: MW-I)	PROBE TYPE (Nestby
SAMPLING DATE(S) 04/25/18 +04/26/18	SERIAL NO. EYNS 2502
LOCATION: JPL	PROJECT: JPL
WATER LEVEL INSIDE CASING: 174, 88	OPERATOR(S) T. HOCKING
ATM. PRESSURE (PSI): (Start) 14,12 (Finish) 19,15	WEATHER Cles

		Probe to Top Collar			sts / Position			Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters						Sample		
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe In/ Arm In	Locate Porti Arm Outi Land Probe	Pressure in MP Casing (psl)	Shoe Out) Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In) Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen -(ppm) Mらばし	ORP (mv)	Sample Time	Sample ID	
5	1	V	V	V	V_{\perp}		217,85	V	B09.40	V	209,40	V	\$17,85	215	346	8.52	d	4.86	180	1415	mW-11-5	
	a	V	V	V	V	1	217,80	V	209,39	V	209,39	V	217,80									
4	Ĭ	V	\checkmark		V	V	16158	V	169,63	V	169,63	V	169.58	33.2	256	8.89	3	4.05	112	1500	MW-11-4	
3				V	V	V	130,62	\vee	126105	V	126,05	V	130,62	2115	439	154	2	4.73	187	1300	mw-11-3	
	Š	V		V	· i/		130,55	V	126,03	V	126,03		130,55					-				
2			V	V	V	1	56,69	V	54,84	V	54,84	V	56,69			246		485	119	1345	mw-11-Z	
1	i	V	V_	V	V	V	14110	V	85,23	٧	25,23	<u>V</u>	14110	2113	667	330	4	4,99	135	1420	mw - 11 - 1	
	Z	V	V	V	V	V	14,08	V	25,25	V	25,25	V	14,08									
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Comments: 100P-6-2Q18 @ MUV-11-3 @) 1310

														350	<u> </u>						
				LOCATION:		1	34,89						PROJECT:								
				WATER LEVI ATM. PRESS		~ 1/2		14	1.11				OPERATOR(S) WEATHER	1 - [10	one					·	
				ATIVI, FINESO	one (Foi). (Statt) / //	/ (Fillist)	-/-/	/ / / /				WEATHER C	0-0							
		Probe to	Surface	Function Tes	ts / Position	Sampler			Sample C	ollect	ion Checks										
		Top Collar		top of collar)							ort in MP casing)				Fi	ield Paramet	ers				Sample
C Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Çheck Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	r Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psl)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm) MG/L	ORP (mv)	Sample Time	Sample ID
51	ì		7	V,	V	V	198.81	V	187,92	V	187,92	\overline{V}	19881	1915	498	853	3	5.31	207	1545	mw-12-5
4	Ì	$\sqrt{}$	V	V	2	1	150,11	V	142.78	V	142,78	V	150,11	18.9	526	865	3	4.75	226		MW-12-4
3	1	$\sqrt{}$	\ \		V	V	101,09	V	93,97	V	9397	V	101,09	17,6	458	153	a	4.55	179	/130	MW-12-3
	2	V	/	V	V	1/	101,05	シン	93.95	\checkmark	93,95	1	101,05						1		
بخ	1	V	V	V	V	V	(do100)	V	59,82	\vee	59.82		66,00	17,3	569,	843	4		194	1230	MW-12-2
	1	V	V	V	V	1	20198	٧	22,65	V	22.65	V	30,98	169	645	8135	3	4,39	267	1300	MW-12-2 MW-12-1
	2	V	V	1/	V	V	20193	V	22,63	V	22163	1	20,93								
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Cor	nments:	DUP.	8-2	2Q 18	0	MU	#	_3	0//	40	3										
																					<u> </u>

Project #:	1804	-KHH			Site:	JPL					
Sampler:			1		Date:	1.26.18					
Well I.D.:	mv-13	5			Well Dia	meter: 2	3 4 6	8			
Total Well	Depth (7.	ΓD): <i>Z</i>	234.05		Depth to Water (DTW): 215.00						
Depth to Fr	ee Produ	ıct:			Thickness	s of Free Pr	oduct (feet):				
Referenced	to:	Pyc	Grade		Flow Cel	l Type		YSI 556			
DTW with	80% Re	charge	[(Height of	Water Col	umn x 0.2	0) + DTW]	•				
Purge Method:		Positive	ble Bailer Air Displacemen Submersible		Waterra (diflo pump raction Pump	de d	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing			
2 g pm 12.7 (1 1 Case Volume	Gals.) X	3 ecified V	olumes = 3	6.3 Galsulated Volume		Nult 1" 0.04 2" 0.16 3" 0.37	6"	Multiplier 0.65 1.47 radius ² * 0.163			
Time	Temp (°F)	pН	Cond. (mS/cm or uS/cm)	Turbidity (NTUs)	D.O. (mg/L	ORP(mV)	Gals. Removed	DTW Observations			
1000	71.9	7.23	819	. 8	0.12	120	6.5	215.20			
1003	72.2	7.18	822	6	5.83	125	13.0	215.22			
1000	72.3	7.19	625	5	5.42	123	19.5	215.22			
1009	72.3	7.19	822	5	5.36	124	26.0	215.22			
1002	72.3	7.16	823	. 5	5.32	122	32.5	215.22			
1015	72.3	7.10	625	5	5.33	120	39.0	215.22			
Did well de	water?		Yes	(Ng)	Gallons a	ctually evac	cuated: 39				
Sampling D	ate: 닉	.26.18)	Sampling	Time: 102	20	Depth to Wate	r: 215.22			
Sample I.D.	: MW	-13			Laborator	y: Bc					
Analyzed fo	or: S-	ee C	e C	Other:							
EB I.D. (if a	pplicab	le):		@ Time							
FB I.D. (if a	pplicab	le):		@ Time	Analyzed for:						
D.O. (if req'	d):		Pre-purge:		mg/ _L Post-purge:			mg/ _L			
O.R.P. (if re	q'd):		Pre-purge:		mV Post-purge:						

WELL ID: MW-14	PROBETYPE Westbay
SAMPLING DATE(S) 04/19/18+04/20/19	SERIAL NO. FMS 2502
LOCATION: SPC	PROJECT: SPC
WATER LEVEL INSIDE CASING: 192, 03	OPERATOR(S) TI HOGUS
ATM. PRESSURE (PSI): (Start) 14,05 (Finish) 14,12	WEATHER CLOSE

		Probe to Top Collar			sts / Position :					Sample Collection Checks be at sampling port in MP casing)						F	ield Paramet	ers			Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out) Port Pressure (psi)	Open Valve	A Port Pressure (psl)	Close Vehicl	Close Valve/ Shoe in	, Pressure in MP Casing (psi)	Sample Temp (⁴ C)	SC (µS/cm)	pН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	\checkmark	V	V	V	V	170,5	V	16/114	\bigvee	161.14	1		170,55	30:6	358	817	2	3.85	92		mw-14-5
4	Ì	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	V	V	133,83	V	124,71	$\frac{\mathbf{V}}{\mathbf{V}}$	1245	2/ \			20,4	722	814	2	4115	171	1430	mw-4-4
	2	V	V	V	V	V	133,80		124170	<u>√</u>	111111111111111111111111111111111111	0	$\sqrt{\ }$	133,80								MW-14-3-40
3		✓	\mathcal{N}	V	V	V	102.37	V	145,28	V	92.6	7	<u> </u>	102.37	8008	1222	8:00	1	3,91	aat	1125	mw-14-3
									92.67													
2	1		V	√	V	V	56,21	V	4691	V	4619	1	V	56,21	2015	1290	7,90	2	4,05	204	1150	mw-14-2
<u> </u>	1	$\sqrt{}$	1/	1		V	25,36		11 20	V	16,2	20		2531	m 1	1001	703	2	4,53	7.3	1215	mw-14-1
1	7	V	<u>v</u>	1/	V	1/	25,29	V	16,29	<u>'</u>	16.3		V	25,36	7411	1296	MOS	1	7400	212	1615	Mas AV-1
-	0	V	V		V		27121	╁	1610		1612		-	a),69								
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Comments: <u>FB-Z-041918</u>

DUP-1-2018 @ MW-14-4 61940

WELL	MONITO	DINC	DATA	SHEET

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			***********	MONTO	KING DA	1	(3)						
Project #:	1604				Site: JPL								
Sampler:	KT				Date: ப	1.26:18	7-44-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	1 1000					
Well I.D.:	M TIPE	- 1W15			Well Dian		3 4 6	8					
Total Well		***************************************		**************************************	Depth to Water (DTW): 30.5%								
Depth to Fi	ree Prod	uct:			Thickness of Free Product (feet):								
Referenced	l to:	€VQ	Grade		Flow Cell			YSI 556					
DTW with	80% Re	charge	[(Height of	Water Co	lumn x 0.20)) + DTW]	: 39.26						
Purge Method:		Positive	able Bailer e Air Displacemen e Submersible		Waterra Redino pump raction Pump	•	Sampling Method 3.42_ Other	Disposable Bailer Extraction Port Dedicated Tubing					
3 gpm					 1	1" 0.04		0.65					
28. Z 1 Case Volume	(Gals.) XSp	3 pecified V	$\frac{1}{\text{Jolumes}} = \frac{84}{\text{Calcu}}$	· 6 Gals	s. 3	2" 0.16 3" 0.37		1.47 radius² * 0.163					
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW Observations					
1208	67.2	7.44		12	1.08	129	14.5	30.64					
1213	67.4	7.41	609	10	1.09	125	29.0	30.64					
1218	67.3	7.40	615	િ	1.05	122	43.5	30.64					
1223	67.2	7.39	619	9	1.02	120	56.0	30.64					
1228	67.2	7.39	622	9	1.00	122	72.5	30-64					
1232	67.2	7.39	025	8	0.98	121	85	30.64					
Did well de	water?		Yes	M	Gallons act	tually evac	cuated: 65						
Sampling D	ate: 4	1.26.18	>	Sampling	Time: (234	5	Depth to Wate	r: 30.64					
Sample I.D.	: Mu	J-15			Laboratory	: BC							
Analyzed fo	or: Set	e Coo	<u> </u>				Other:						
EB I.D. (if a	pplicabl	le):			Duplicate I	.D. (if app	licable):						
FB I.D. (if a	pplicabl	e):		@ Time	Analyzed for	or:		11MH/2.3_41L					
D.O. (if req'	d):		Pre-purge:		mg/ _L	Post	-purge:	mg/L					
O.R.P. (if re			Pre-purge:		mV	Post-	-purge:	mV					

Project #:	1 804/6.	WT1			Site:		JPL							
Sampler: 1	co				Date:		4.27-18							
Well I.D.:	MW-19	P			Well D	iam	eter: 2	3	4 6	8				
Total Well	Depth (ΓD):			Depth to Water (DTW): 205.95									
Depth to Fr	ee Prodi	ıct:			Thickness of Free Product (feet):									
Referenced	to:	PVO	Grade		Flow C	ell '	Туре			YSI 556				
DTW with	80% Re	charge	[(Height of	Water Col	umn x ().20) + DTW]	:						
Purge Method:		Positive	ble Bailer Air Displacemen Submersible		Watern Rediffe pum raction Ptum	ip	Diameter Mult	Sar	Other:	Disposable Bailer Extraction Port Dedicated Tubing				
			*. <u></u>			1 2	" 0.04	ірпсі	4" 6"	0.65 1.47				
1 Case Volume	Gals.) X	ecified V	/olumes Calcu	Gals	5.	3	" 0.37		Other	radius² * 0.163				
Time	Temp	pН	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg	2/L)	ORP(mV)	Gal	ls. Removed	Observations				
	CICA		Sample											
	-700			,,,,,_										
1148	75.2	8.35	759	8	1.62	-	114	-						
Did well de	water?		Yes (No	Gallons	act	tually evad	cuate	ed: —					
Sampling D	ate: 4/-	27.18		Sampling	Time:	[]4	5	Dep	oth to Wate	r: <i>265.95</i>				
Sample I.D.	: MW	16			Laborat	tory	: BC			3.000				
Analyzed fo	r: Se	e Ce	C					Othe	er:					
EB I.D. (if a				@ Time	Duplica	ate I	.D. (if app	olica	ble):					
FB I.D. (if a				@ Time	Analyz	ed f	or:							
D.O. (if req'			Pre-purge:		mg/	L	Post	-pur	ge:	mg/L				
O.R.P. (if re			Pre-purge:		mV	/	Post	-pur	ge:	mV				

WELL ID: MW-17	PROBETYPE (Westland
SAMPLING DATE(S) 64/35/18	SERIAL NO. FMS 850 2
LOCATION: JFC	PROJECT: JPL
WATER LEVEL INSIDE CASING: 207:33	OPERATOR(S) T. HOWY
ATM PRESSURE (PSI): (Start) /4/05 (Finish) /4/09	WEATHER CLEAN

		Probe to Top Collar	Surface (probe in	Function Te	sts / Position) / (lower prol	Sampler be to port)					tion Checks port in MP casing)				F	ield Parame	ters				Sample
U Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe		Shoe Out		Open Valve	> Port Pressure (psl)	Close Valve/ Shoe in	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen —(npm) MSIL	ORP (mv)	Sample Time	Sample ID
12	1	V/	V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V	1	241,05		220,07		220,07	V	241,05	15,5	702	711	4	5,69	235	0730	MW-17-5
17	1	V	V	V	V	V	178,49	V	159,63	4	1 - 11 - 1	V	178,49	16.6	741	7,59	<u>ろ</u>	5,01	249	0800	mw-17-4
<u> </u>	2	V/	\ <u>\</u>	V	V	1	178,45	V	159.61	4	159.61	V	178,45								
3	3	V		V		1	178,41	V	159.63	Y	100		178,41		- 1 6						
	a	1/	V	1		1	129,19	1/	1005	7	109,53	1		23.1	969.	703	2	4,63	Z20	0930	mw-17-3
	3	V		V	1/	1/		-	109.55 109.53	_	109,55	V	12911								
	4		1/	V	1	V	12916		109.52		109,53	<u>V</u>	129,16	7							
	ち	V	1/		V	1	139115		1,000		109,50	/	129,18								
2	1	1/	1/	1/	1	1	86.80	V	76.74	V	76:74	V	127115 8680	218	702	712	<u>-</u>	11 52	6: 0	1100	10 - 1 - 1 - 1 - 2
	2	V	1	1	2	1	26.75	Ž	70.72		70,78	V	86,75	CHZ	100	7,65	2	4,53	212	1120	mw-17-2
1		V	V	V		1	34,58	V	19,33	i	19,33		34, 58	18.9	515	Si 36	<u>ි</u>	5 <i>8</i> 3	210	1200	10.1.1.
	B.	V	V	1/	V	1/		V	19,35			V	33,99	<i>pi j</i>	710	0176	<u> </u>	מטונ	210	1200	mw-17-1
					-	- V				T	1100		1211								
										7									***		
										1											

Comment	DUD-5-2018@MW-17-2@1130
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	EB-6-042518

				WELL ID:	MW-	18-						PROBE TYPE (Westhy											
				SAMPLING D	DATE(S)	4/26	18						SERIAL NO. E	MSA									
						<u>.</u>	11 3						PROJECT:	PL									
							4,20 07 (Finish)	14	109				OPERATOR(S)		ass.						•		
				ATM. PRESS	SURE (PSI): (Start) / 7,	(Finish)		HOST				WEATHER ()	evy									
-		I																	.*			7	
		Probe to Top Collar			sts / Position) / (lower prot						tion Checks port in MP casing)	Field Parameters											
ron number	Run Number	Arm out / Land Probe	Shos Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe in	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm) Mg i L	ORP (mv)	Sample Time	Sai	mple ID	
<u>-</u>	1 V V V V 185.56 V 185.56 V												188,41	1811	454	8.45	3	3.91	61	0820	mw-/	8-5	
1	ì	V	V	V	V	V	136.30)V	136,21	シ	7	V	136,25	82.8		831	ゑ		205	2900	mW-1.	8-4	
	又	V	V	1	1	V	136,25	5 V	136,20	V	136,20	V	136,25	700716		7.7.7	*				1	<u></u>	1
	3	V.	V	1	1/	V	136,2	2 V	136.23		136,23	V	136,22										1
	4	V	V	1/2	1/-	1/	13611	16	136,24		136,24	V	13/01/9										1
	5	V	V	V	V	V	136113	51	136,23	_	13623	V	136,15		***				,				1
3	1	V	1/	V	V	V	15,33	V	79,19	V	79, PI	V	75,33	20,4	574.	8136	3	4166	224	1100	mw-1	8-3	1
ζ	1		·V	V	V	V	34137	7 1	36.67	V	36,67	V	34,37	a1.3		253		4.75	209	125	mw-l	8-7]
1		V	V	V	V	V	14,14	V	14,13	V		V	14,14.	-por	is dr	V-1			Taken			8	74
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Cor	nments	TB	-7-0	426	18		•				•			•						•	•		
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Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

200

WELLID: MW-19	11.4
	PROBE TYPE / CAR TYPE "
SAMPLING DATE(S) 09/20/18	SERIAL NO. 12V115 2412
LOCATION: SPL	PROJECT: 501
WATER LEVEL INSIDE CASING: 137,80	OPERATOR(S) T. HOULES
ATM. PRESSURE (PSI): (Start)/4,08 (Finish)	WEATHER (1807)
•	

		Probe to Top Collar	Surface (probe in	Function Te- top of collar	sts / Position) / (lower prot	Sampler be to port)			Sample C	olled	tion Checks port in MP casing)				F	ield Parame	ters				Sample
f Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valva/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psl)	Shoe Out	Port Pressure (psl)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In		Sample Temp (°C)	SC (µS/cm)	Hq	Turbidity (NTU)	Dissolved Oxygen —(ppm).	ORP (mv)	Sample Time	Sample ID
5	9 -	-	1/	1	1/	100	171163	1/	146.20	V	146,20	V	171,63			7,29	2	5.05	272	0720	MW-19-5 MW-19-4 MW-19-3 MW-19-2
3	ì		V	V	V	V	25.49	. /	10887 101:75	∨	101,75	V	148,04	15.2		7,05 7,27	2	4.75	260	0745	MW-19-4
2	1		V	V	V	V	9/173	1	67,48	ν	67,48	V	9/173	14.8	1020	7.20	3	4,80	231	0900	MW-19-3
	2	V	V	1		1/	91.72	V	67,47	レン	67,47 67,46	V	91,72								
	4		V	V	V	V	91.71	V	<i>67.47</i>	V	67,46	V	91,69 91,71								
 	5	$\frac{V}{V}$	·V	~	V	<u>\</u>	91,68		67,45	V	67,45 36,39	V	91,68								
1		V_	V	V	ν	V	60,30	ν	36,39	V	36,39	V	60,30	26.	695	7,88	2	4,166	22.5	1030	mw-19-1
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EP-3-042018

sett.	FIELD DATA LOG SHEET	
WELL ID: 1910-12 MW-20	PROBE TYPE / Wes they	
SAMPLING DATE(S) 09/87/18	SERIAL NO. EMS 2502	
LOCATION: JPL	PROJECT: JPL	
WATER LEVEL INSIDE CASING: 239,73	OPERATOR(S) T. Hours	
ATM. PRESSURE (PSI): (Start) 14/03 (Finish) 14/05	WEATHER Clair	

		Probe to Top Collar			ts / Position						tion Checks port in MP casing)				F	ield Paramet	ers				Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen Appm) Mail	ORP (mv)	Sample Time	Sample ID
5	1	V	V	V	V	V	306101	1	306170	>	306:70	1	306,01	15.3	468	7,49	3	5,05	68	7735	MW-20-5
4	١	V,	V	V	V	V	218,99	V	214109	V	214,09	\overline{V}	218,99	15,7		920		4.80	-31	0810	MW-20-5 MW-20-4 MW-20-3 MW-20-2
3	ì	V	V	V	V	1	158.87	به	15016		150,16	V		15.7	339	8153	3		45	0845	MW1-20-3
2	ì	V	V	V	V	V	8488	V	81.04	V	81114	V	84,88	15.8	647	8142	400.00	4,53	158	0915	MW-20-2
	a		· V	V	V	V	84.09	V	81102	V	81,02		84109	7.5		0,1-	A STATE OF THE STA	,,,,,,	1 - 0	- 11	1.100
1	ì		1/	1/	1	V	14.18	V	14,17	V	14,17	\overline{V}	14,18	Morti	5 Dw-1	NO SC	inde	TateM		1015	mw-20-1
									1-1-1						P 1		1111	1 200		1000	

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Comments: puP-7-Qa18@MW-20-Z @0925
EB-8-042718@1030

				WELL ID:	MU	U-Z,	/						PROBE TYPE	(1)e	tha							
				SAMPLING [DATE(S) 6	4/20	/18				-		SERIAL NO.	ms:	thay 2502	2						
				LOCATION:							-		PROJECT: 3	PC							•	
						ASING: 1	5,95	<u> </u>			-		OPERATOR(S)		ang							
				ATM. PRESS	SURE (PSI): (Start) / Y	// (Finis	h) /	4/13		-		WEATHER C	lear							-	
		Probe to Top Collar		Function Tes top of collar							ction Checks port in MP casing)				F	eld Paramet	ers				Sample	
	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psl)		Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe in	Pressure in MP Casing (psi)	Sample Temp (⁰ C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
1	1	V	V_{\cdot}	V	V	V	130,2	31	136,2	4 2	136124	~		25,3	935	8,43	a	7,35	201	/335	mw-21-3	5
	_	V	V_	V	V	V	103,5	61	109.3	7 V	109,37		103,56					5,04	195	1400	mW-21-4	1
,	l	V	V	V	V	V	73.3	21	79,53	Z	79.52	1	70.30	21.0	1961	7.91	1	× 21	210	1470	MM/-71-2	•
	2	V	V	V	1/	V	73,3	301	79.5	2 2	79,52	V	73,30								MW-21-2	+
1	1	V	V	V	1/	1/	39,2	61	45.30	V	45,30	ν	39.26	22.3	1366	8.16	2	5,40	224	1500	MN/-21-2	,
7	1	V	V	V	1/	1	14,0	18	14.1	3 1	14.13	V	14.00	- 100	ctic	One	- N	6 5 % 100	ala T	Lon-	7110	
1	. 					<u> </u>	7.110		1		71115		/ 1108	γ-	1.13	PIY	L	29.119) <u> </u>			
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om	ments:	pol	7-Z-1	ZG 18	F @	mu-	21-3	36	D/43	0_								·				
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				WELL ID:	mv	V-Z	2							PROBE TYPE	W	es th	Ý					
			•	SAMPLING D		9/27	118							SERIAL NO.	MSD	7502	/					
				LOCATION:	ブダ		93.Q	8						PROJECT:	<u>PL</u>	tona a						
				WATER LEVI		• /.	• • • • • • • • • • • • • • • • • • • 		14,03	3				OPERATOR(S) WEATHER	1 · [[rang		*****				
			•				<i>,</i> , , , , , , , , , , , , , , , , , ,	···, ((11)											***************************************		
		Probe to Top Collar		Function Tes								ion Checks ort in MP casing)				F	ield Paramet	ers				Sample
roit nullibei	Run Number	Arm out /	Shoe Out/ Close Valve/ Sheck Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casina (psi)		Shoe Out		Open Valve	Port Pressure (psi)	Close Valve/ Shoe in	Pressure in MP Casing (psl)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen _(nnm) MG (L	ORP (mv)	Sample Time	Sample ID
5	Ĺ	V	V	V	V	V	187,	17.1	176	,87	V	176,87	V	187,97	18,5	476	7.72	2	3.77	-76	0800	MW-27-5
1		V_{λ}	V	V	V	V	1300	0 1	125.	50	$\underline{\vee}$	125,50	V	136,30		428	7,80	3	4105	139	0830	MW-22-4
ż	į	V	V	V	V	V	101,	12	931	04	V	93,04	V	101,72	170	469	8105	4	4,61	182	0900	mw-22-3
	2		. V	V	V	V	10/1	0	1921	96	$V_{ m I}$	22,96		101,70		ļ						
2)	V	V		1		75,4	7	1661	78	V	66,78	V		9.0	672	7.84	<u>ろ</u>	477	193	0930	mw-22-2
	2	W	· V	V	W	V		39	16611	59	Y	6669	V	75,39	0.1			; A	/: 46 ²⁵			
_	LL	V	V	V	V		38,4	15	30.	$\overset{\circ}{\omega}$	V	<i>30,00</i>	V	38.45	211.6	12/8	190	니	4,5	207	1015	MW-22-1
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	nmacto	PUR	7-3-7	10180	a) m	14-7	2-3	· @	009	10	J	L	-	B-5-0	4241	1		J	1	I	1	L
U	mient												_=	<i>,, ,</i>		<i>u</i>						
		m5/1	115 p	(a),	MIN	-27	1-2							,						WANTED THE TOTAL PROPERTY OF THE PARTY OF TH		

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		WELL ID:	MNN DATE(S)	1-23	<u> </u>		-				PROBE TYPE	NO	Hor						
		SAMPLING D	ATE(S)	24/18	118						SERIAL NO.	MS a	2502	-					•
		LOCATION:	JPL								PROJECT:	TPL	• .						•
			EL INSIDE CA		35,48						OPERATOR(S)	T. 1	locus	3					•
	:	ATM. PRESS	URE (PSI): (Start) /4/	12 (Finish) /	4,	14				WEATHER C	leco.		J					•
																			•
Probe to Top Collar			ts / Position : / (lower prob						tion Checks port in MP casing)				F	ield Paramet	ers				Sample
Arm out / and Probe	Shoe Out/ Close Vaive/ Check Vacuum	Open Valva/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psl)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm) MSIL	ORP (mv)	Sample Time	Sample ID
<u>V</u> _	V	V	Y	V	192,51	V	185,60		185,60	V	19251		430	8:30	3	4.05	-3/	0730	MW-23-5
\checkmark	\checkmark	V	V	V	150,32	V	143,75	V	143,75	V	150,32	178	373	205	Z	3.91	150	0805	mw-23-4
V	\checkmark	V	V	V	9/105	V	90.67	i	90,67	1	96,05	19.6	526	7,83	2	5,25	173	0830	mw-23-3 mw-23-2
V	V.	\		V	67171	V	62,48	V	62148	V	67.71	21.6		765		5,33	189	900	MIN-23-2
V		1	V	V	67,69	V	62147	V	62147	V	67.189	<u> </u>			•	7.7	10 (7.73
$\sqrt{}$	<u></u>	i/	1/	1/	32.82		28,11	V	28,11	∇		211	1206	7.69	1	5,45	104	0925	mw-23-1
				<i>V</i>	202	Ė	71211	<u> </u>	1017		100	<u> </u>	1500	11611		7. , 7		130	14110 02 1
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ments: M3/7NSD @ MW-73-Z SB-1-041818 TB-1-041818

				SAMPLING D LOCATION: WATER LEVI ATM. PRESS	URE (PSI): (4/8/ ASING: 2, Start) /4/	//8 //.02 // (Finish)	14,					PROBE TYPE SERIAL NO. PROJECT: OPERATOR(S) WEATHER	MS Z	tby 2502 Day						
		Probe to Top Collar			rts / Position						tion Checks port in MP casing)				F	ield Paramete	ers				Sample
1	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe in/ Arm in	Locate Porti Arm Outi Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	y Port Pressure (pst)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm) 72 50) ^{iff}	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample 1D MW - Z4 - 4 1181
7	j	V	V	V	V	V	164,73	И	150.45	٧	180,48	V	164,73	3112		8140	2	5,05	-46	1045	MW-24-5
	l	V		V	V	V/	218118	V	202.61	Y	202,61	V	218,18	26,9	404	2,51	3	4,65	110	1120	MW-24-5
')	$\sqrt{}$	$\sqrt{}$	V	V	V	113,10	M	100,38	ン	100,38	V	113,10	21,3	339	8,24	à	4.75	-69	1145	MW-24-3
<u>-</u>	1_	V	V	V	V	V	86113	M	13,56	V	73,56	V	86,13	21.8	652	8129	3	4,99	148	1230	mw-24-Z
	A	V	V_	V	V	V	86,10	V	73.55	V	73,55	V	86.10								
	1	V	$\sqrt{}$	V	V	1/	45,33	И	33,69	1	33,69	$V_{/}$	45,33	19.4	726	7.96	2	4.65	184	1315	mw-24-1
	2 3	V	LV	V	W	1	45.31	V	33.70	M	33,70		45,31								i
	ک	V	V	V	1/	V	45.32	И	33.7A	V	33,78	V	4532								
	4	V	V	V	V	V	45,30	M	33 .71	٧	33,71	V	45,30								
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Con	ments	_m	3/m.	5b 6	JAZ	<u> レース </u>	4-2_														

						1-2:							PROBE TYPE	Wes	tby						
			-		DATE(S)	4 123	3/18						SERIAL NO.	MSB	1502	•				_	
				LOCATION: WATER LEVI	EL INSIDE C	ASING:	44,60)		_			PROJECT: (OPERATOR(S)	T. Ho	ay						
				ATM. PRESS	SURE (PSI): (Start) 14,	16 (Finish)	14	1,19				WEATHER (lear	_						
														T							
		Probe to Top Collar		Function Tes top of collar)							tion Checks oort in MP casing)				Fi	ield Paramet	ers				Sample
Fort Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm) MS 12	ORP (mv)	Sample Time	Sample ID
5	١	V	V	V	/	V	22711	8 V	216,36	V	216,36	V	222.18	21.3	404	Si75	3	5,73	-59	1215	MW-25-5
1	Ì	V	·V	V	V		187,4	1/	182,39	2	18239	V		22.4	823	8:47	a	4,83	141	1240	MW-25-4
3	Ĺ	V	V	V	V	V	13/110		126,62	Y	126,62	V	13/110	22.7		8:35	23	4196	190	1310	MW-25-3 MW-25-2
2	1_	V	<u>V</u>	V	V	V	76.40	∤	91.92	Ιν	9/192	V	96,42	24.1	770	8,29	3	5.09	203	1340	MW-25-2
_	2	V	-V_	W,	1/	1/	96,41	שוב	91,90	V	91,90	V	96,40							11103	0)
Ц	<u> </u>	V	V		<u></u>	V	68W	1	63,55	ert	63,55	V	68,17	23.6	955	7,90	2	5,50	215	1430	mw-25-1
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Con	nments	m /	msk) @	mı	w-a	5-2				1		.1				1				

				WELL ID:	MU	U-2	6				_		PROBE TYPE	We	25 the	2/					
				SAMPLING D	ATE(S) 🕖	4/24	1/18				-		SERIAL NO.	EMS	<u>a 502</u>	<i>b</i>					
				LOCATION:			,				-		PROJECT:	JPL	·						
				WATER LEVI	-		<u>5,5,50</u>		106		-		OPERATOR(S)	[1 FK	Den	>					
				ATM. PRESS	SURE (PSI): (Start) / //	05 (Finish) [/]	706		-		WEATHER C	er							
		I I																			
		Probe to Top Collar		Function Tes top of collar)							ction Checks port in MP casing)				F	ield Paramet	ers				Sample
roit mailibai	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe in/ Arm in	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	9.000	Port Pressure (psi)	Open Valve	Nort Pressure (psl)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen _(ppm)	ORP (mv)	Sample Time	Sample ID
2	}	V	V	/	V	1 /	8117		569		56.94	V	81,74	23.7	722	5.25	2	5,26	172	1220	MW-Z6-Z
	á	1/	V	V	V		81.70	5 N	1509		56.93		181,70								
	1			V	V	V	47.8	7	421,27	7 2	12127	V	47,87	22.5	970	7,13	M	5.53	166	1300	mW-26-1
	Sult		/	V			47,8		21/23	5 V	21,23	V	47,83								
	N	V	~	V	V	1	47,7	01	121124	i v	21,24	V	47,70								
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Cor	nments	<u> </u>	P-4	- 26	215° C	OM.	1W-2	76	-1@		310										

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