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 Westbay[™] multiport wells (MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-26). Groundwater sample collection for the 4th Quarter 2018 sampling event was conducted by Blaine Tech Services, Inc.

Note: During the fourth quarter 2018, the shallow standpipe well MW-13 was inaccessible due to ongoing construction activities. In addition, the relatively shallow standpipe wells MW-6, MW-7, and MW-16 and the uppermost sampling port (i.e., Screen 1) in multi-port monitoring wells MW-12, MW-14, MW-17, MW-18, MW-20, and MW-21 were dry and could not be sampled.

WELL	MONITORING	DATA	SHEET

Project #:					Site: JPL						
Sampler:	KT				Date: 10	24.18					
Well I.D.:	m	\			Well Diameter: 2 3 4 6 8						
Total Well	Depth (7	(D): •	1 0.00		Depth to Water (DTW): רד. בי						
Depth to Fr	ee Produ	ict:			Thickness of Free Product (feet):						
Referenced	to:	PVO	Grade		Flow Cell	Туре		YSI 556			
DTW with	80% Red	charge	[(Height of	Water Col	umn x 0.20) + DTW]	51.89				
Purge Method:		Bailer Disposal Positive	ble Bailer Air Displacement Submersible	2" F Extr	Waterra Sampling Method: Bailer Rediflo pump DeD Disposable Bailer traction Pump 47.63 Extraction Port Dedicated Tubing Dedicated Tubing						
3 Gpm	<ta< td=""><td>er a</td><td>2,148</td><td></td><td></td><td></td><td>Other: iplier Well Diameter</td><td>Multiplier</td></ta<>	er a	2,148				Other: iplier Well Diameter	Multiplier			
$\frac{3 \text{ Grm } \text{ Stalt } \text{ @ 1148}}{\frac{30.9}{1 \text{ Case Volume}}} \begin{bmatrix} \frac{30.9}{1 \text{ Case Volume}} & \frac{32.8}{2 \text{ Calculated Volume}} \end{bmatrix} \xrightarrow{\text{Well Diameter Multiplier } \frac{1^{\circ}}{0.04} & \frac{4^{\circ}}{4^{\circ}} & \frac{0.65}{2^{\circ}} \\ \frac{2^{\circ}}{0.16} & 6^{\circ} & 1.47 \\ 3^{\circ} & 0.37 & \text{Other radius}^{2 \circ \circ} 0.163 \end{bmatrix}$											
Time	Temp (°F)	pH	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW O bservatio ns			
1153	63.7	7.24	584	5	0.44	63	15.5	42.34			
1158	63.9	721	584	5	0.42	62	31.0	12.39			
1203	63:9	7.21	585	¥	0.36	62	46.5	ul.39			
1208	63.9	7.20	586	3	0.33	60	62.0	42.39			
1213	43.9	7.20	584	z	0.31	59	71 .5	42.39			
1218	64.0	7.20	585	2	0.29	59.	93.0	42.39			
Did well de	water?		Yes C	No	Gallons ac	tually evad	cuated: 93.0	0			
Sampling D	ate: 10	.24.1	6	Sampling	Time: 12	20	Depth to Wate	r: 42.39			
Sample I.D	.: n/u)-1			Laboratory	r: BC					
Analyzed for: SEE CoC Other:											
EB I.D. (if	applicab	le):		@ Time	Duplicate	I.D. (if app	olicable):	:			
FB I.D. (if a	applicab	le):		@ Time	Analyzed for:						
D.O. (if req	'd):		Pre-purge:		^{mg} / _L Post-purge:						
O.R.P. (if re	eq'd):		Pre-purge:		mg/LPost-purge:mVPost-purge:r						

WELL ID: MU-3 SAMPLING DATE(S) / C / 17 / 18 LOCATION: KOVINE WATER LEVEL INSIDE CASING: 175,60 ATM. PRESSURE (PSI): (Start) 19,09 (Finish) 19,00

PROBE TYPE SERIAL NO.	FIMSZA	712	 · · · · · · · · · · · · · · · · · · ·
PROJECT:	SPL	<u>u</u> e	 ·······
OPERATOR(S)	T. Hou	11	

		Probe to Top Collar	Surface (probe in	Function Tes top of collar	sts / Position) / (lower prot	Sampler be to port)					tion Checks 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 Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	t Pressure in MP Casing (psi)	Sample Temp (^o C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm) MML	ORP (mv)	Sample Time	Sample ID
5	1	$ert \mathcal{V}$	\checkmark	∇	V	V	223,16	RV	221,49	V	221,49	V		159	632	6.74	3	7.10	196	0735	mw-3-5
4	12	$\overline{}$	$\overline{\mathbf{v}}$	V	V	V	[79,9°				, 180,88 180,83	V V	ł			6.88	30	6.73	•		mw-3-4
2)	V	\checkmark	\checkmark	V	V	87,66	51	87,17	V	6 89,[7	V	87.66	17.0	574	689	9	6,39	213	0850	MW-3-3
R	1	\checkmark	\checkmark	V	V	V	46.66	5V	48,78	V	48,78	\overline{V}	46.66	17,1	582	7.30	4	6.05	-18	0915	mW-3-2
1	- - よ	\checkmark	V	V V	V	V	14,21 14,12	V	[7:4] [7:40	アレ	[7,4] [7,40	V V	14,21	179	549	7.46	3	6.73	200	9940	mw-3-1
Con	ments:	TB-	3-10	7/7/2	PO	070	0										••••••••••••••••••••••••••••••••••••••				· · · · · · · · · · · · · · · · · · ·

NUN-2-4018 @MW-3-4@GE18

.

WELL ID: 3 SAMPLING DATE(S) Jł LOCATION: WATER LEVEL INSIDE CASING: 149,95 1410 ATM. PRESSURE (PSI): (Start) / 4,06 (Finish)

PROBE TYPE	Westby	
SERIAL NO.	2502	
PROJECT:	JPL	
OPERATOR(S)	T. Hoag	
WEATHER	Jean	

		Probe to Top Collar			sts / Position / (lower prob		Sample Collection Checks Field Parameters (probe at sampling port in MP casing)								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/ and 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 (⁰ C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm) Mg/L	ORP (mv)	Sample Time	Sample ID
5	Ī	$\overline{\mathbf{V}}$	$\overline{\mathbf{V}}$	V	V		176,12	V	17/,57	V	171,57		176,12	1915	836	794	35	5,90	35	1120	mw-4-5
4	١	\checkmark	V		v	V	122.09	V	118,F4	V	118.84	V	122.09	<u>j</u> 9,6	872	5:04	12	6.03	6	1195	mw-4-4
3	1	\checkmark	\sim	V		V	90,95	V	88,40	V	\$8,40	V	90,95	19,5	890	797	17	590	-45	1220	mw-4-3
2	1	\checkmark	\checkmark	V	V	V	54.92	V	57.86	V	52,86	V	54.92	19.7	1158	7.76	2	6.05	142	1245	mw-4-2
)	1	\checkmark		V	V	V	15,49	V	16,37	$\overline{\mathcal{V}}$	16,37	V		19.4	511	8.13	3	6.25	158	1315	mw-4-1
	2						1402		16:36		16,36		14,02								
								-													
Cor	nments:	·	· · · · · · · · · · · · · · · · · · ·																		

WELL MONITORING DA	ATA SHEET
--------------------	-----------

	g:4							
Project #: 18102	Site: JPL							
Sampler: 47	Date: 10.24.18 10.24.18 / 10.25.18							
Well I.D.: MW-S	Well Diameter: 2 3 ④ 6 8							
Total Well Depth (TD):	Depth to Water (DTW): (33.15 / 133.50							
Depth to Free Product:	Thickness of Free Product (feet):							
Referenced to: EVC Grade	Flow Cell Type YSI 556							
DTW with 80% Recharge [(Height of Water Colu	umn x 0.20) + DTW]:							
	Waterra Sampling Method: Bailer Redifio pump Disposable Bailer raction Pump Extraction Port Dedicated Tubing Other:							
	Well Diameter Multiplier Well Diameter Multiplier 1" 0.04 4" 0.65 2" 0.16 6" 1.42							
$\frac{1}{1 \text{ Case Volume}} (\text{Gals.}) X = \frac{1}{2 \text{ Gals.}} Gals.$	S. $\begin{bmatrix} 2^n & 0.16 & 6^n & 1.47 \\ 3^n & 0.37 & \text{Other} & \text{radius}^2 * 0.163 \end{bmatrix}$							
Cond.								
Temp (mS/cm or Turbidity	D.O. (mg/L) ORP(mV) Gals. Removed Observations							
- Grab sample TAKEN.								
0748 65.9 7.26 453 275	1.73 75 -							
Did well dewater? Yes No	Gallons actually evacuated:							
Sampling Date: 10.25.16 Sampling	Time: 0745 Depth to Water: 133.50							
Sample I.D.: Mw-5	Laboratory: BC							
Analyzed for: مع مع	Other:							
	Duplicate I.D. (if applicable): pup-&-4Q1&C							
\overline{O}	Analyzed for:							
D.O. (if req'd): Pre-purge:	^{mg} / _L Post-purge:							
O.R.P. (if req'd): Pre-purge:	mV Post-purge: mV							

Project #:				Site:	-	SPL						
Sampler:	KT				Date:	10	.25.18					
Well I.D.:	mw-4	,			Well D	Diam	eter: 2	3	(4) 6	8		
Total Well I	Depth (T	TD): 2	239.00		Depth to Water (DTW): Dey							
Depth to Fre	ee Produ	ict:			Thickness of Free Product (feet):							
Referenced	to:	PVQ	Grade		Flow C	Cell	Гуре			YSI 556		
DTW with 8	30% Rec	charge	[(Height of	Water Col	umn x 0.20) + DTW]:							
Purge Method:		Positive	ble Bailer Air Displacemen Submersible		Water Redifio pun raction Pun	np np 			ampling Method Other	Disposable Bailer Extraction Port Dedicated Tubing		
ſ						1'	"0.	<u>lultiplier</u> 04	4"	0.65		
- ((Gals.) X		=	Gals	5.	2' 3'		.16 .37	6" Other	1.47 radius ² * 0.163		
1 Case Volume	Sp	ecified V	olumes Calcu	ilated Volume								
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (m	g/[_)	ORP(mV) G	als. Removed	Observations		
1	rell	15	DRY		2.0. (m	8-2)	<u> </u>	<u>/</u>				
	NO	SA	mple	TRKE	2							
									-			
Did well dev	1		Yes	No		s act	ually ev					
Sampling D	<u> </u>			Sampling				$\frac{\int De}{\int De}$	epth to Wat	er:		
Sample I.D.	: \				Labora	tory	:	-				
Analyzed fo	<u>r: \</u>			<u>}</u>				Of	her:			
EB I.D. (if a	pplicabl		@ 	<u> </u>		.D. (if a	pplic	able):				
FB I.D. (if a	pplicabl		@ Time	Analyzed for:								
D.O. (if req'	d):	Pre-purge:		mg	/ _L	Po	ost-pu	irge:	mg/L			
O.R.P. (if re	q'd):		Pre-purge:		mV Post-purge:					mV		

 \bigcirc .

Project #:					Site:		JPL	-				
Sampler: ¥	4-				Date:	l	0.25.	18				
Well I.D.:	mu))			Well I	Diam	eter:	2	3	4	6	8
Total Well	Depth (]	[D):	267.3	5	Depth to Water (DTW): ひんど							
Depth to Fr	ee Produ	ict:			Thickness of Free Product (feet):							
Referenced	to:	уус	Grade		Flow Cell Type YSI 556							
DTW with	lumn x	0.20) + D'	ΓW]	•							
Purge Method:		Waterra Sampling Method: Bailer Rediffo pump Disposable Bailer raction Pump Extráction Port Dedicated Tubing										
		(Well I	Diameter	Mult	iplier		Other: iameter	
			1'	14	0.04		4" 6"		0.65			
1 Case Volume	Gals.) X	ecified V	=	Gal	5.	3'		0.37		Other		radius ² * 0.163
			•••••••••••••••••••••••••••••••••••••••		J	L			1			J
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (m	g/L)	ORP(1	[∞] mV)	Gals	. Rem	oved	Observations
	we	ના	IS DO	Ry -		-						
	とつ		SAMP	il	TAF	Ze	\sim	1				
Did well dev	vater?		Yes	No	Gallon	s act	ually	evac	uatec	1:		
Sampling Da	ate:		١	Sampling	Time:				Dept	h to I	Vate	r:
Sample I.D.:					Labora	tory:	:					
Analyzed for	:						Other	: \	.			
EB I.D. (if a	pplicable		Duplicate I.D. (if applicable):									
FB I.D. (if a _l	oplicable	e):		@ Time	Analyzed for:						\setminus	
D.O. (if req'o	l):		Pre-purge:		mg	Ĺ		Post	-purge	•		mg/L
O.R.P. (if red	m۷	/		Post	-purge	:		mV				

Project #:					Site: JPL						
Sampler: ⊭	ir				Date: 1	0.24.18 /	10-25-18				
Well I.D.:	Mw-8		1		Well Dia	1	3 🕑 6	8			
Total Well I	Depth (I	TD): ;	205.00		Depth to Water (DTW): 198.20 / 198.22						
Depth to Fre	ee Produ	ict:	~~		Thickness of Free Product (feet): -						
Referenced	to:	PØ	Grade		Flow Ce	ll Type		YSI 556			
DTW with 8	80% Rec	charge	[(Height of]	Water Col	umn x 0.20) + DTW]: —						
Purge Method:		Positive	ble Bailer Air Displacement Submersible		Waterra Redifio pump raction Pump		Sampling Method: Other:	Dispeade Bailer Extraction Port Dedicated Tubing			
r					⊻	1" 0.04	4"	0.65			
- (0	Gals.) X	-	=	- Gals	s.	2" 0.16 3" 0.37		1.47 radius ² * 0.163			
1 Case Volume		ecified V	olumes Calcu	lated Volume	L	******					
Time	Temp (°F)	pН	Cond. (mS/cm or (µS/cm)	Turbidity (NTUs)	D.O. (mg/	L) ORP(mV)	Gals. Removed	Observations			
GRAB	SAI	npi	e TAK	en —							
1005	65.6	7.08	625	298	4.31	105					
Did well de	water?		Yes (Nd	Gallons	actually eva	cuated:	-			
Sampling D	ate: 10	.25.19	8	Sampling	Time: 1	005	Depth to Wate	er: 198.22			
Sample I.D.	: mu	~0			Laborato	ory: BC					
Analyzed fo	or: Set	coc	1944-1944				Other:				
EB I.D. (if a	pplicab	le):		@ Time	Duplicat	te I.D. (if ap	plicable):				
FB I.D. (if a	pplicabl	le):		@ Time	Analyze	d for:					
D.O. (if req'	d):		Pre-purge:		^{mg} /L	Pos	t-purge:	mg/L			
O.R.P. (if re	eq'd):		Pre-purge:		mV	Pos	st-purge:	mV			

					~~~~						
Project #:					Site:	JPL					
Sampler:	KT				Date:	10.24.10					
Well I.D.:	mw-9				Well Dia	ameter: 2	3 (4) 6	8			
Total Well	Depth (]	ر (D):	60.00		Depth to Water (DTW): 37.45						
Depth to Fr	ee Produ	ıct: ·			Thickness of Free Product (feet): —						
Referenced	to:	Eve	Grade		Flow Ce	ll Type		YSI 556			
DTW with	80% Re	charge	[(Height of	Water Col	umn x 0.	20) + DTW]	•				
Purge Method:		Positive	ble Bailer Air Displacemen Submersible	t Extr	Waterra Rediflo pump raction Pump	75.67.55	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing			
2 Gpm	Stal+1	30	0		<u>v</u>		Other: iplier Well Diameter	Multiplier			
	Gals.) X		= 47	3.9 Gals		1" 0.04 2" 0.16 3" 0.37	4" 6" Other	0.65 1.47 radius ² * 0.163			
Time	Temp (°F)	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/	L) ORP(mV)	Gals. Removed	Observations			
1304	66.5	6.93		6	0.30	107.	7.5	40.53			
1308	66.4	હ.બ્ર્ય	433	5	0.27	106	رج.ه	40.53			
1312	66.4	6.94	630	3	0.25	uv -	22.5	40.53			
1310	66.4	10.95	629	3	0.22	112	30.0	40.53			
1320	66.5	6.95	Q31	2	0.21	112	37.5	40.53			
1324	60.5	6.95	629	2	0.20	110	45.0	40.53			
*											
Did well de	water?		Yes (	No	Gallons	actually evad	cuated: 45.0				
Sampling D	ate: 10	.24.19	5	Sampling	Time: (	330	Depth to Wate	r: 40.53			
Sample I.D.	.: Mu	J-9			Laborato	ory: BC					
Analyzed for	or:	Other:									
EB I.D. (if a	applicab	le):		@ Time	Duplicat	e I.D. (if app	olicable):				
FB I.D. (if a	applicab	le):		@ Time	Analyzed for:						
D.O. (if req	'd):		Pre-purge:		^{mg} / _L Post-purge:						
O.R.P. (if re	eq'd):		Pre-purge:		mV Post-purge:						

蠡

										2
Project #:					Site:	د	PL			
Sampler:	KT				Date:	10.	24.18	0.25.19		
Well I.D.:	mw-10				Well D	iam	eter: 2	3 4 6	8	
Total Well	Depth (7	۲D): ۲٫	5.00		Depth t	:0 V	Vater (DTV	N): 146.15 /	147.46	
Depth to Fr	ee Produ	lct:	_		1			oduct (feet): -		
Referenced	to:	609	Grade		Flow C	ell	Туре		YSI 556	
DTW with 8	80% Re	charge	[(Height of	Water Col	lumn x C	.20	) + DTW]	-		
Purge Method:		Positive	ble Bailer Air Displacement Submersible		Watern Rediflo pum raction Pum	р р —	Diameter Mult	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing	
1 Case Volume	Gals.) X	becified V	= olumes Calcu	Gal lated Volume		1	" 0.04 " 0.16 " 0.37	4" 6" Other	0.65 1.47 radius ² * 0.163	
Time	Temp (°F)	рН	Cond. (mS/cm or (uS/cm)	Turbidity (NTUs)	D.O. (mį	g/L)	ORP(mV)	Gals. Removed	Observations	
	G	TAP	> SAMPI	e TA	Ken					
•										
0845	66.1	6.80	1089	130	3.82		112	-		
Did well de	water?		Yes (	No	Gallons	s ac	tually evad	cuated: —		ĺ
Sampling D	ate: 10-	25-18		Sampling	Time:	۵۶۲	15	Depth to Wate	er: 147.46	
Sample I.D.			. · · ·		Labora	tory	: BC		4.94 × 1	
Analyzed fo	or: S	ll C	mC	*****				Other:		
EB I.D. (if a				@ Time	Duplica	ate 2	I.D. (if app	olicable): D	P-7-4R18	000
FB I.D. (if a				@ Time	Analyz	ed f	for:	*** •		
D.O. (if req'			Pre-purge:	, ,	mg	′L	Post	-purge:	mg/L	
O.R.P. (if re	eq'd):		Pre-purge:		mV	/	Post	-purge:	mV	

WELL ID: MW-1 SAMPLING DATE(S) /0/24/18 LOCATION: JPL WATER LEVEL INSIDE CASING: 198.35 ATM. PRESSURE (PSI): (Start) 14,07 (Finish) 14,09

PROBE TYPE SERIAL NO. PROJECT: OPERATOR(S) Hoar WEATHER

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position ) / (lower prol	Sampler be to port)						tion Checks port in MP casing)				f	Field Parame	ters				Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out [/] Close Valve [/] Check Vacuum	Open Vatve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP	Casing (psl)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Y Pressure in MP Casing (psi)	Sample Temp ( ⁰ C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm) (MG) [L	ORP (mv)	Sample Time	Sample (D	
5			V	V	V	V	207	167	V	190,08	V	190,88	レ	207,67	16.0	431	7.05	4	6.19	233	0800	mw-11-5	
	2	$\checkmark$	V	$\checkmark$	V	V	207	60	V	190,84	く	190,84	V	207.60									
						<u> </u>				harmer (		(											
1	1				V		158	192	M	56.76	M	156,76	V	158192	19.7	267	7.06	3	6.35	-15	6845	mw-11-4	
3		$\checkmark$	1	2/	1	1/	+11-7	61	$\cdot$	12 11	<b>-</b>	112 11		11701	100	11000	201		0.210		0.002		
2		<u>v</u>					14.7	96		113,04	1	12,07	V	117.96	19,9	901	7,26	3	614	159	0920	mw-11-3	
2	}	$\checkmark$	$\checkmark$		V	V	44	07	0	42.72	2	42.72	$\checkmark$	94.07	z0,5	470	7,34	2	5,85	74	0950	mW-11-2	
		$\overline{}$	$\frac{r}{r}$	$\mathcal{V}$	V	V	141		V	19,70	V	19:70	V	14.05	84.7	643	7,40	2	6157	174	1030	mw-11-1	
_	2	$\checkmark$	V	$\checkmark$	1	V	1141	05	V	19:68	V	19.68	V	14,05			ļ						
-																							
$\neg$									-+														
$\uparrow$							<u> </u>													,			
							1																
																	1						
Com	ments:	TB-	-7-1	024;	18 a	1070	20						<b>.</b>	*			J	L	L	I	L	<b>_</b>	
																		· · · · · · · · · · · · · · · · · · ·					

WELL ID:	MU-12
SAMPLING DA	TE(S) 10/25/18
LOCATION:	JPL
WATER LEVEL	INSIDE CASING: 159,56
ATM. PRESSU	RE (PSI): (Start) /4//0 (Finish) /4///

PROBE TYPE Westhar	
SERIAL NO. 12WS 2502	
PROJECT: SPL	
OPERATOR(S) T. HOUS	
WEATHER CLEUN	

		Probe to Top Collar			ts / Position / (lower prob						tion Checks oort in MP casing)				F	ield Parame	ters				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 ( ⁰ C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen -(ppm)- Mg) 1 L	ORP (mv)	Sample Time	Sample ID
5	)		V	V	$\checkmark$		188.21	V	168,30	N	168,30	V	188.21	17,3	585	6161	3	6.05	189	0745	mw-12-5
	2	$\sim$	$  \vee$	$\vee$	$\checkmark$	V	88120	V	168,29	V	168,29	V	188.20			ļ					
4	)		$\vee$	Ī	V	V	139,42	V	[28,11	V	128.11	V	139.92	17,1	505	6,50	2	6,33	265	0035	mw-12-4
3	1	$\checkmark$	V	V	V	V	9/123		80,03		80,03	$\overline{V}$	90,23		431	7,45	5	6,49	170		MW-12-3
2	1	$\checkmark$	V	V	V	$\overline{V}$	10.0		~		46,10	,	55.23		553			6,26			MW-12-2
,									<u> </u>			$\overline{v}$								,-	
(	_			V	V		14.16		14.10	ľ	14110	v	14,16	-10	tisp	γ <u>γ</u> =	γοι	a.pl.	e jak	ar -	
								-													
		L			I									L	L	<u> </u>		<u> </u>	l	<u> </u>	<u>l</u>

EB-8-102518 @1015

Project #: 18/0	12-HH	1/		Site:	JAC							
Sampler: HH	<i>,</i> .			Date:	10/25/	18						
Well I.D.: MW	-13			Well Di	iameter: 2	3 4 6	8					
Total Well Depth (	(TD): -			Depth t	o Water (DT	W):						
Depth to Free Proc	luct:			Thickness of Free Product (feet):								
Referenced to:	PVC	Grade		Flow Cell Type YSI 556								
DTW with 80% Re	echarge [(]	Height of	Water Col	umn x 0	.20) + DTW	]:						
Purge Method:	Bailer Disposable Positive Air Electric Sul	r Displacement		Waterr Rediflo pum action Pum	p	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing					
				ſ	Well Diameter Mu	Other: Itiplier Well Diameter						
Gals.) X 1 Case Volume	Specified Volu	= imes Calcu	Gals	5.	1" 0.0 2" 0.1 3" 0.3	5 6"	0.65 1.47 radius ² * 0.163					
Time (°F)	pH (	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg	z/L) ORP(mV)	Gals. Removed	Observations					
-Unerfole	: +0	acces	s due	, to	Constru	etion-						
	-//ò	Sar	mle	Tale	en —							
Did well dewater?	Y	es	No	Gallons	s actually eva	icuated:	7					
Sampling Date:			Sampling	; Time:		Depth to Wate	er:					
Sample I.D.:				Laborat	tory:							
Analyzed for:						Other:						
EB I.D. (if applica	ble):		@ Time	Duplica	ate I.D. (if ap	plicable):						
FB I.D. (if applica			@ Time	Analyz	ed for:							
D.O. (if req'd):		Pre-purge:		mg _/	L Po	st-purge:	mg/L					
O.R.P. (if req'd):		Pre-purge:		m۷	V Po	st-purge:	mV					

MW-14 WELL ID: 110 SAMPLING DATE(S) h 16 LOCATION: awei 'c't WATER LEVEL INSIDE CASING: 19215.3 ATM. PRESSURE (PSI): (Start) 17,08 (Finish) 14,10

PROBE TYPE Wistbar	
SERIAL NO. EMS DOC	
PROJECT: JPL	
OPERATOR(S) T. Hoan	
WEATHER CLOSE	**************************************

		Probe to Top Collar			sts / Position ) / (lower prol		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 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 ( ⁰ C)	SC (µS/cm)	рH	Turbidity (NTU)	Dissolved Oxygen 	ORP (mv)	Sample Time	Sample ID	yot en , ,
5	1	$\checkmark$	V	V	V	V	170,32		152.04		152,04	$\overline{\mathcal{V}}$		15,8	417	6,60	2	mg1L 9,05	262	0735	mw-14-5	
4		V	V	V	V	V	133.67	V	115,65	V	11565	V	133,67 133,63	17,7	724	694		8,06	268	0815	MW-14-4	
	2						133,63	51	1563		115,63	V	133,63									_
3	١	$\checkmark$	$\checkmark$	$\overline{V}$	V	V	101,17	V	83,54	V	83,54	$\overline{V}$	101.17	18,9	115a	6197	1	751	249	0900	mw-14-3	
ð	1	$\checkmark$	$\checkmark$	V	V	V	55,73		37,73	V	37.73	V	55,73	26.5	1233	7:26	5	7,10	241	0920	MW-14-2	
1	)	$\checkmark$	V	V	V	$\overline{\mathcal{V}}$	21,53	V	14,11	V	14,11	V	21.53	-por	Fis 1	Pry.	- N	San	ple T	aben		
								-														
									· · · · · · · · · · · · · · · · · · ·													
Con	nments:	FB-	-Z-K	0161	8 a	070	70															
		My /	m51]	@ //	nw-	14-9	/															

Project #:					ر Site:	PL							
Sampler:	KT				Date: W	0.24.16							
Well I.D.:	MW-15				Well Diam	eter: 2	3 1 6	8					
Total Well	Depth (7	TD):	60.00	, pump.	Depth to Water (DTW): 48.30								
Depth to Fr	ee Produ	ict:			Thickness of Free Product (feet):								
Referenced	to:	RVC)	Grade		Flow Cell	Туре	1	YSI 556					
DTW with	80% Red	charge	[(Height of	Water Col	umn x 0.20	) + DTW]		. i					
Purge Method:		Positive	ole Bailer Air Displacement Submersible	t Extr	Waterra Redifio pump raction Pump	11.7	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing					
1.0-000					Well	Diameter Mult	Other: iplier Well Diameter						
$\frac{2Gm}{1 \text{ Case Volume}}$	Gals.) XSp	<b>3</b> ecified V	$\frac{1}{1} = \frac{2}{Calcu}$	Z.Ø Gals		" 0.04 " 0.16	4" 6" Other	0.65 1.47 radius ² * 0.163					
Time	Temp (°F)	pН	Cond. (mS/cm or µS7cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	D <del>bservations</del>					
1047	63.9	6.89	643	11	1.24	136	Ч	46.84					
1049	63.5	6.89	640	9	1.22	131	ę,	40.84					
1051	62,9	6.91	656	7	1.21	128	12	40.64					
1053	62.0	6.92	654	6	1.19	125	16	40.00					
10545	102.7	693	653	5	1.70	24124	no	40.64					
1057	102.6	6.93	654	5	1.21	122	24	48.84					
Did well de	water?		Yes C	No	Gallons ac	tually evac	cuated: 24						
Sampling D	ate: 10	·24.19	ò	Sampling	Time: 10	59	Depth to Wate	r: 48,84					
Sample I.D.	: +2	mw-	45		Laboratory	: B	2						
Analyzed fo	r: S	mw- EE	CoC				Other:						
EB I.D. (if a	pplicab	le):		@ Time	Duplicate I	.D. (if app	olicable):						
FB I.D. (if a	pplicabl	e):		@ Time	Analyzed f								
D.O. (if req'	d):		Pre-purge:		^{mg} / _L Post-purge:								
O.R.P. (if re	q'd):		Pre-purge:		mV Post-purge: m								

Project #:	1810	12-1	1-11-11		Site:	t	PL					
Sampler:	HH				Date:	1	0/23	/18				
Well I.D.:	nw-	16			Well Diameter: 2 3 4 6 8							
Total Well	Depth (	ГD):	284.81	/	Depth to Water (DTW): 284.60							
Depth to Fr			··· · ·					roduct (feet):				
Referenced	to:	evc	Grade		Flow C	Cell	Туре		YSI 556			
DTW with	80% Re	charge	[(Height of	Water Col	umn x (	).20	)) + DTW]	:				
Purge Method:		Positive	ble Bailer Air Displacemer <del>Submersible</del>			1p 1p	Diameter Mul	Sampling Method Other	Disposable Bailer Extraction Port Dedicated Tubing			
1 Case Volume	Gals.) X	ecified V	= /olumes Calcu	GalsGalsGalsGalsGalsGalsGalsGalsGalsGalsGals	5.		1" 0.04 2" 0.16 3" 0.37	4" 6"	0.65 1.47 radius ² * 0.163			
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mį	 g/L)	ORP(mV)	Gals. Removed	Observations			
	Fosc	ffic	ient w	ater to	Purzo	e	orSal	ple—				
		- N	lo Sar	pp le	Fale	re	h-					
Did well dev	water?		Yes	No	Gallons	ac	tually evad	cuated.	L			
Sampling Da	ate:			Sampling	Time:			Depth to Wate	r:			
Sample I.D.:					Laborat	ory	/:					
Analyzed for	r:							Other:				
EB I.D. (if a	pplicabl	le):		@ Time	Duplica	te l	I.D. (if app	olicable):				
FB I.D. (if a	pplicabl	e):	ffan	@ Time	Analyzed for:							
D.O. (if req'o	d):		Pre-purge:	I	^{mg} / _L Post-purge:				mg/L			
O.R.P. (if red	q'd):		Pre-purge:		mV Post-purge: mV							

Project #:					Site:		IPL						
Sampler:	KIT				Date:	10	0.24.18	<b>)</b>					
Well I.D.:	mw-	·16		**************************************	Well I	Diam	neter: 2	3	4	6	8		
Total Well	Depth (]	ΓD):	284.61	******	Depth to Water (DTW): 284.60								
Depth to Fr	ee Produ	ıct:			Thickness of Free Product (feet):								
Referenced	to:	Cerc	Grade		Flow Cell Type YSI 556								
DTW with	80% Red	charge	[(Height of	Water Co	olumn x 0.20) + DTW]:								
Purge Method:		Positive	ble Bailer Air Displacemer Submersible		Waterra Sampling Method: Bailer 'Redifio pump Disposable Bail ktraction Rump Extraction Por Dedicated Tubin Other:								
								ultiplier	Well Diar	=	Multiplier		
	Gals.) X		=	Gal	5.	1 2 3	" 0.1	6	4" 6" Other		0.65 1.47 radius ² * 0.163		
1 Case Volume	Sp	ecified V		ulated Volume		L							
Time	Temp (°F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (m	g/L)	ORP(mV)	) Gal	s. Remov	ved	Observations		
	±η	suff	WATE	RIN	well			_					
	20		AMPLE		AKer	$\overline{)}$							
			Five		nru								
Did well dev	vater?		Yes	No	Gallons	s act	ually eva	icuate	d:				
Sampling Da	ate:			Sampling	Time:		1	Dep	th to W	ater			
Sample I.D.:	, 	$\sum$		<b>.</b>	Laborat	tory	:						
Analyzed for	••			$\backslash$				Other	r:				
EB I.D. (if a _l	pplicable	e): \			Duplica	te I.	D. (if ap	plicat	ole):				
FB I.D. (if ap	plicable	e):		@ Time	Analyze	ed fo	or:		\				
D.O. (if req'd	l):		Pre-purge:	<u> </u>	^{mg} / _L Post-purge: ^{mg}					^{mg} /L			
O.R.P. (if rec	l'd):		Pre-purge:		mV	7	Pos	t-purg	e:	T	mV		

WELL ID: MUU-17 118 SAMPLING DATE(S) 10 LOCATION: 6 NŔ  $\circ$ WATER LEVEL INSIDE CASING: 208,25 14,10 ATM. PRESSURE (PSI): (Start) 14,06 (Finish)

PROBE TYPE	Westby	
SERIAL NO.	EM52502	
PROJECT:	JPL	
OPERATOR(S)	T. Hoars	- 1777
WEATHER	Clean	

		Probe to Top Collar		Function Te top of collar							tion Checks port in MP casing)				F	ield Parame	lers	<u>,</u>			Sample	]
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Vatve/ 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	Yert 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 <del>(ppm)</del> MG / L	ORP (mv)	Sample Timo	Sample ID	
5		-V	$\vee$	V	V	V	241,10	$\mathbf{V}$	205.50	V	205.50	V	241,10	19,5	669	7.62	4	6,33	187	1135	mw-17-5	
4	_]_	V	V	V	V	V	178,54	V	143,25	V	143.25	V	178,54	20,2	745	7,79	4	6.75	200	1210	mw-17-4	
3	)	$\checkmark$	$\overline{\checkmark}$	V	V	V	129.3	31	99,39	V	99,39	V	129,33	20,4	886	7,81	2	7,39	209	1235	MW-17-3	
2	)		V	V	V	V	86,72		59,52	V	59,58	V	86,72	21.4	642	7,82	1	7.66	112	1315	MW-17-2	
	2		V	V	1/	V	86,68		59,47	r	59,47		\$6.66							1350	19ain-17-1-	_
	)	$\checkmark$	V	V	V	1	34.46	V	14.26	$\overline{\mathbf{v}}$	14126	V	34.46	-Pov	tis K	h-	140	ample	Torkyr	1350		
																						_
										<u> </u>												
LCon	nments:	puľ.	)-J-	40 L	80	ppu	u -17	 Z	$\frac{1}{2}$	L Zv	15	L		I	L	L	l	I	I	I	I	
				-1017																		

WELL ID: SAMPLING DATE(S) recita LOCATION: adena A WATER LEVEL INSIDE CASING: 9 Mide ATM. PRESSURE (PSI): (Start) 07 (Finish)

PROBE TYP	E Wes	Hhup .	
SERIAL NO.	EMSA	502	
PROJECT:	SPL.		 
OPERATOR	(s) T. HO	an	
WEATHER	Clean		

		Probe to Top Collar			sts / Position ) / (lower prot						tion Checks port in MP casing)				F	ield Paramet	813				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 ( ⁰ C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen - (ppm)- MS/L	ORP (mv)	Sample Time	Sample ID
5	1	V	$\mathcal{V}$	V	V	V	18,45	V	169,77	V	169,77	V	188,45	1618	284	7,29	2	7,10	15	0750	MW-18-5
4	)	$\checkmark$	$\checkmark$	V	V	6	136,36	ν	TALIS	V	121,15	V	136,36	16,9	418	7,21	9	6,83	218	0815	mw-18-4
3	1	V	$\overline{\mathcal{V}}$	V	V	V	75,16	V	66,57	V	66.57	V	75,16	1612	518	6,83	3	6.64	228	0845	MW-18-3
2	1	$\checkmark$	$\checkmark$	V	V	V	34,30	V	28,08	v	28,08	V	34,30	17,1	503	7,15	3	6,85	210	0920	MW-18-2
i	1	$\checkmark$	V	$\overline{\mathbf{v}}$	V	V	14,15	V	14,14	V	14,14	V	14.15	-Por	Fis p	ny-	No	Sam	ple Te	hten	1999 Barran Carrow (1999 Barran Carrow
							·····														
								-													
Cor	nments:		5-102	218	00	700	) )	J			1	l	<u></u>	I	I	<u> </u>	I	1	<u> </u>		I

MIN-9 WELL ID: SAMPLING DATE(S) LOCATION: ater Plant WATER LEVEL INSIDE CASING: 140, 21 14,09 ATM. PRESSURE (PSI): (Start) /4 17 (Finish)

PROBE TYPE (Us Haw	
SERIAL NO. EMS 3502	
PROJECT: JPL	
OPERATOR(S) T. Horans	
WEATHER Clear HAUNK	

		Probe to Top Coilar			sts / Position ) / (lower prol						tion Checks port in MP casing)				F	ield Paramet	ers				Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Chec:: Vacuum	Open Vaive/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm in	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	ort Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Fressure in MP Casing (psi)	Sample Temp ( ⁰ C)	SC (µS/cm)	рH	Turbidity (NTU)	Dissolved Oxygen -(ppm)- ING, IL	ORP (mv)	Sample Time	Sample ID	
15	<u>~</u> ]	V	V	V	V		171.17	ŤΫ	131,46		131,46		17/17	20,4	626	7,78	4	6.41	88	1145	MW-19-5	-
	2	$\checkmark$	ĪV	V	V	V	1711	31	131.44	V	131,44	V	17113								L	h
						<b>"</b>			<i>.</i>							L					mw-ja-1	-[
4	1	V	V	V	V	1/	147,71	V V	108,21	V	10821	V	147,71	23.0	662	8:02	3	6,75	75	1250	mw-19-4	4
	2	$\overline{\checkmark}$	V	i	V	1V	147.70		18,19		108,19	V	147,70		ļ	ļ				1240	Marken is 2 M	<b>6</b>
	Ľ		L,			ļ	4		ç				1-DUC			ma cho					MAN-19-3	-
3	1		V	V	V		R7.10	<u>3</u> V	91,53	$\mathbb{P}$	91,53	V	124,63	Jal.3	196	1854	3	7.24	120	1345	mw-19-3	-
2		$\mathbf{\nabla}$	V	V	V	V	9131	V	57.93	31	57,93	V	71,39	30,5	1145	7,75	12	7.11	75	1410	mw-19-2	
	1	$\checkmark$	V	V			60,06	; V	27.63	312	27.63	V	60.06	30,9	660	8:07	3	685	161	1495	1))W-19-1	
													-				<u> </u>				5.	-
										+						<u> </u>						-
	<u> </u>	<u> </u>	<u> </u>	ļ								+						+				-
L		<u> </u>	<u> </u>				1				 F=		1	1	<u> </u>		1	1	<u> </u>			_
Co	mments	=DÜ	b_/ -	<u>401</u>	80	imu	1-19-	-5	a	μĿ	5											
		EB	-1-1	015	180	131	0	2	B-1-10	s/ :	7180	13	:15									

IMIN-20 WELL ID: SAMPLING DATE(S) LOCATION: have WATER LEVEL INSIDE CASING: '014.0 ATM. PRESSURE (PSI): (Start) 19 (Finish)

PROBE TYPE	Werthaf	
SERIAL NO.	-VN ASUZ	
PROJECT:	JFC.	
OPERATOR(S)	Thomas	
WEATHER 7	Irou II Nilaly	

		Probe to Top Collar		Function Tes top of collar)							tion Checks port in MP casing)				F	ield Parame	ters				Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Орел Valve/ Apply Vaсцит (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 ( ⁰ C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen <del>(ppm)</del> Mg/L	ORP (mv)	Sample Time	Sample ID
5	1	V	V	V	V	V	305,89		299,53	V	299,53	V	305,89	16.4	307	754	7	6.05	-10	0800	MUJ-20-5
4	ì	V	$\mathcal{V}_{-}$	V	V	V	219.05		201.19	$\mathbb{P}$	201,19	V	219,05	18.7	315	8:22	3	6,54	-12	0840	MW-20-4
2	3				1	3	155/10		111 10		111/16		150.10		200	hra	2	CAL	100	AGUE	14.14. 7. 7
3	<u> </u>					1	1-860		17610		146,10		128.68	20:2	340	8,59	3	601	-120	0915	MN-20-3
	ø_	V	V				1 Dillo		19601	Ľ	176107		120,06							1015	MN-20-2-
2	[	$\overline{\mathbf{V}}$	V	V	V	V	8471	V	76,27		76,27	V	84:71	201	615	8,23	2	7,05	111	1015	
							-		/												
1		$\checkmark$			$\vee$		14.13	V	14,12	V	14,12	V	14,13	P0	tis	Dry	-N	Samp	etale	n-	MW-20-1
								-		<b> </b>											
								+		╞											
										$\square$	1					1				-	
																	L				
Con	ments:	ps/2	nsp	<u>Ch</u>	<u>1N-</u>	26-3	5														
				- 18 C																	

MIN-WELL ID: SAMPLING DATE(S) LOCATION: ahamon WATER LEVEL INSIDE CASING: ATM. PRESSURE (PSI): (Start) 14,04 17,065 (Finish)

SERIAL NO.	EMERTIZ	
PROJECT:	NDI	
OPERATOR(S)	TT.	

		Probe to Top Collar			ts / Position / (lower prob						ion Checks ort in MP casing)				F	ield Paramet	ers				Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Ciose 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	A Port Pressure (psi)	Close Valve/ Shoe In	Tessure in MP Casing (psi)	Sample Temp ( ⁰ C)	SC (µS/cm)	рH	Turbidity (NTU)	Dissolved Oxygen Hog IL	ORP (mv)	Sample Time	Sample ID
5	1	V	V	V	V	V	130,16		125,83	V	125,83	V	130,16	11.2	784	7,50	3	675	224	1040	mw-21-5
4	1	$\checkmark$	V	V		V	103,54	V	78:97	V			103,34		992	7.49	2	7,06			MW-21-4
3	j	$\checkmark$	$\overline{\vee}$	V	V	V	7356	V	69,13	V	69,1B	V	73,56	210	1247	7,52	2	7,35	231	1120	mw-21-3
2	1	$\checkmark$	V	V	V	V	39.07	V	34,99 35,01		34,99 35,01		37109 39110	21,5	1410	7,56	3	6,85	223	1200	mn-21-2
	2					V	14.12	Γ γ			14.12	V	14,12.	- Por	rtis	Dia/-		o Sa	mle	Terter	
											1110										
																				-	
			<u> </u>							-											 
Cor	nments:	DUI	1 0-4-	4 Q 1	80	mω	-21-2	C	) 121C	)	L	I	1	L		.I		1	.L		

1022180 1220 E Ð Æ

WELL ID: SAMPLING DATE(S) LOCATION: WATER LEVEL INSIDE CASING: 23 14,03 ATM. PRESSURE (PSI): (Start) 14101 (Finish)

PROBE TYPE SERIAL NO. PROJECT: OPERATOR(S) سصر م WEATHER

and the state of the

		Probe to Top Collar			sts / Position ) / (lower prol							tion Checks port in MP casing)				F	leld Paramet	ters				Samplo	
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	A Pressure in MP Casing (psi)	Sample Temp ( ⁰ C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen _ <del>_(ppm)</del> DCa/L	ORP (mv)	Sample Timo	Sampie ID	
5		V	V	V	r	V	173	,54	4	163,47		163,47	V		17.7	441	7.02	4		-36	0745	MW-22-5	
4	)	$\checkmark$	V	V	V	V	124	14	V	, 112.95	V	112.95	V	121.14	18.3	393	6,89	2	6,54			mw-22-4	-
3	ļ		V	V	V	V	87,	<u>i</u> 6	4	81,85	V	81,85	V	87,16	18.4	453	6,88	2	7,39	214	ò\$40	<u>mw-22-3</u>	
2	1	V	V	V	V	V	611	26	V	55.74	v	5574	V	61126	18,5	617	7.04	3	6177	222	0910	MW-22-2	-
	12	$\checkmark$	V		V	V	24î 24î			19,57 19,58	V	19,57 19,58	V V	24129 24120	1910	1223	7,11	3	6165	243	0740	INW-22-1	-
Сол	nments:											-1			<u></u>							nyana aya aya aya aya aya aya aya aya ay	_

WELL ID: SAMPLING DATE(S) 100 LOCATION: 7 WATER LEVEL INSIDE CASING: 140, 15 ATM. PRESSURE (PSI): (Start) 14,06 (Finish) 14,00

PROBE TYPE	1 De	the		
SERIAL NO.	FMS	202	 	
PROJECT:	SPL			
OPERATOR(S)	T.HO	Rey	 	
WEATHER	Cilée	~	 	

		Probe to Top Collar			its / Position / (lower prot	•					tion Checks port in MP casing)				F	ield Parame	ters				Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out [/] Close Valve [/] Check Vacuum	Öpen 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 <del>(ppm)</del> MS/L	ORP (mv)	Sample Time	Sample ID
5		$\checkmark$	1	$\mathcal{V}$	V	V	190,50		172,25	V	172,25	V	190,50	18,3	190	764	2	611	-26	0730	MW-23-5
4	1	$\checkmark$	V	V	V	V	148.41	V	13030	V	130.30	V	148.41	17.4	400	6.90	2	7,10	194	0750	mw-23-4
3		$\checkmark$	V	V	V		73,75	V	79,04	V	19.04			16.l	521	6.78	1	7,35	217	815	mw-23-3
	2	- V.			V		93,73		79162		79,02		13.73					- 	$= \int_{-\infty}^{+\infty} \int_{-\infty}^{\infty} \int_{-\infty}$	-	
2	1	$\checkmark$	V	V	V	V	65,59	V	50,90	V	50.90		65,59	18,5	1148	6,89	2	2,04	227	0930	mw-23-2
1	1		V	V	V	V	30,80		17.36	ν	17,36	V	30.8°0 30.75	22.1	1223	7.06	3	670	182	1000	mn-23-1
					V	V	30.7E	510	17.31	$\nu$	12,31	V	30.75				Ĕ.				
															-						
								-									<b></b>				
		į		ļ.									1			L	<u> </u>			<u> </u>	
Con	nments:	-TB-																			
		pup	-5-4	1015	×0.	mu	1-23-	3	@ 68	a	5										

1310-
WELL ID: 1910-22 MW -24
SAMPLING DATE(S) 10/18/18
LOCATION: TPL
WATER LEVEL INSIDE CASING: 212,44
ATM. PRESSURE (PSI): (Start) /4/1/ (Finish) /4/13
1 1 1 1 1 1 1

SERIAL NO. EMS 8502	
PROJECT: JPL	
OPERATOR(S) T. Haven	

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position ) / (lower prol	Sampler be to port)					tion Checks port in MP casing)				F	ield Parame	ters					
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	s 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 <del>- (ppm) -</del> MG IL	ORP (mv)	Sample Time	Sample ID	
6			-¥-				m1110						r r								CU E	
1		$\mathcal{V}$			V		16396	$ \nu$	137,17	$\nu$	137/17	V	163.9k	24.3	235	7.72	4	583	-90	1200	MW-24-4	1
			$\sim$						·											1		1
5		$\checkmark$	$\mathcal{N}$	$\mathcal{V}$	V	V	217,26	V	187162	ν	187/6R	V	217,RC	23.5	404	7.94	3	6,36	140	1230	mw-24-5	
	i	$\checkmark$	V	$\overline{\mathcal{V}}$	V	1	217.23	SV	187,60	$\mathbf{v}$	187,60	$\bigvee$	a17,83	>					, , , , , , , , , , , , , , , , , , , ,			1
				c					/		° r											
3	)	$\checkmark$	V	$\checkmark$	V	V	112,16	$\vee$	88,54	V	88,54	$\checkmark$	112.16	24.0	383	Bizz	2	673	-110	1315	mw-24-3	1
									-		·`											1
2		V	$\checkmark$	V			85.16	V	61,90	V	61,90	V	85,16	241	664	8,04	2	615	117	1335	MW-24-2	
				<u>^</u>					· · ·		1											
				V		V	44,91	V	22.99	V	22,99	V	44.91	23.9	757	7.97	2	6,40	120	1415	MW-24-1	
	2	V	V	V	V		44,63	V	22,95	V	22,95	$\mathcal{V}$	44,63								//····	
																						Sugar
																						1
																						1
Соп	nments:	EB	-4-1	1018	186	24	160												*******	• • • • • • • • • • • • • • • • • • • •		_

SAMPLING DATE(S) 61618	
WATER LEVEL INSIDE CASING: 245, 41	
ATM. PRESSURE (PSI): (Start) 14122 (Finish) 14123	;

PROBE TYPE COSTING	
SERIAL NO. FM) 2502	
OPERATOR(S) T. Macan	

		Probe to Top Collar			sts / Position ) / (lower prot						ction Checks port in MP casir	ıg)			I	Field Parame	Field Parameters							
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	<pre>Port Pressure (psi)</pre>	Open Valve	Port Pressure (psi)	Close Valve/	Pressure in MP Casing (psi)	Sample Temp ( ⁰ C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm) IM-1L	ORP (mv)	Sample Time	Sample (D			
5		V	V	V	V	V	221,84	1 1	211.47	71	211,4	ZV	221,84	21.6	416	8.05	2	6.73	-89	1100	mw-25-5			
4			$\overline{V}$	V	V	V	187,21	V	178,34	1 v	178.3	1 V	187.21	20.6	784	8:06		6.81	114	1135	mw-25-4			
3	1 2	$\checkmark$	V	V	V V	Y	130,97 130,95		122,9		122,9:		130.97		741	2,95	2	7.03	139	1215	MW-25-3			
2		$\checkmark$	V	V	V	$\mathcal{V}$	46121	' V	8C-15		88.40		96,21	21.3	729	7.91	3	6,65	156	1300	MW-25-Z			
<u>)</u> .	-1-	$\checkmark$	- 	V		V	67.84	V	6,13	V	60.13	3 2	67,84	246	907	7.90	2	6.85	155	1330	MW-25-1			
															1									
Com	ments:																							

WELL ID: MV - 26SAMPLING DATE(S) 10/24/18LOCATION: SPLWATER LEVEL INSIDE CASING: 6620ATM. PRESSURE (PSI): (Start) 14/13 (Finish) 14/15

SERIAL NO.	51115 250	7	 
PROJECT:	SPL	<u> </u>	 ·,
OPERATOR(S)	T. Horas		 

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position ) / (lower pro	Sampler be to port)					tion Checks port in MP casing	)	*****			Field Paramo	ters				Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Vatve/ 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	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)- MQ/L-	ORP (mv)	Sample Time	Sample ID	
2		$ V\rangle$	·V	$\mathcal{V}$	V	V.	82.02	M	51.21	V	51,21	V		251	809	7,50	5	7.09	187	1200	MW-26-2	-
	2		V			V	8199	く	51,18	V	51,18	V	P1,90	1000-1		1	<u> </u>		100-	1200	1110 GO C	
	-1-	44			Ļ	ļ			-											1		
	E	1V,				$\mathcal{V}$	47,58 47,52	54	17,16	M	17,16		47,58	23,3	886	2,14	3	6.45	141	1250	MW-26-1	
	2	V	$\nu$	V			47,52	21	17,13	$\lor$	17.13		47,52	-					<b>,</b> , , , , , , , , , , , , , , , , , ,			
		ļ								<b>_</b>		ļ										
												ļ		ļ								
										-												
												<u> </u>		ļ						ļ		
																<u> </u>				<u> </u>		
								+-								ļ						
								┽┥		$\left  \right $												
								+														_ `
								+		$\left  - \right $						<u> </u>						_
										$\left  \right $		+					<u> </u>					
								+		$\left  \right $											1	
Corr	nments:	DIND	-6-1	nzy	18/6	D) IN	1/2-2	26	-2 0	2) 2)	1210	1	I	L	I	.1	l	1		1	1	
				-A-l-			f			Ĩ	1210								······		······································	
		-EB	- 7-	1029	(8 (	$\mathbb{Z}$	220				****											