

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 Westbay™ multiport wells (MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-26). Groundwater sample collection for the second quarter 2022 sampling event was conducted by Blaine Tech Services, Inc.

Note: During the second quarter 2022 the relatively shallow standpipe wells MW-6, MW-7, MW-13, and MW-16 and the uppermost sampling ports (i.e., Screen 1) in the multi-port monitoring wells MW-14, MW-18, MW-20, MW-21, and MW-26 were dry and no samples were collected. Multi-port well MW-12 was not sampled due to an obstruction in the well casing. In addition, MW-5, MW-8, and MW-10 were grab samples due to insufficient water levels for purging well prior to sampling.

WELL MONITORING DATA SHEET

Project #: 210 220422-HH1	Site: JPL
Sampler: GC	Date: 9/5/22
Well I.D.: Mw-1	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 90.00	Depth to Water (DTW): 25.26 (64.74)
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVO Grade	Flow Cell Type: YSI Pro Plus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 38.21	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Flow Rate = 1034 @ 26 PPM

$$\frac{42 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 126 \text{ Gals. Calculated Volume}$$

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	6"	0.65
2"	0.16	Other	1.47
3"	0.37	radius ² *	
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1046	17.4	7.26	626.6	55	0.72	190.5	42	25
1058	17.7	6.82	621.2	13	0.69	161.7	42	50
1110	18.1	6.79	620.3	3	0.67	148.3	63	75
1122	19.1	6.89	621.4	2	0.64	144.5	84	100
1134	18.7	6.97	620.5	2	0.66	141.3		126

Did well dewater? Yes No Gallons actually evacuated: 126

Sampling Date: 9/5/22 Sampling Time: 1135 Depth to Water: 26.12

Sample I.D.: Mw-1 Laboratory: Pace

Analyzed for: _____ Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: MW-3
 SAMPLING DATE(S): 05/02/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 153.31
 ATM. PRESSURE (PSI): (Start) 14.03 (Finish) 14.05

PROBE TYPE: Westbay
 SERIAL NO.: EMR 502
 PROJECT: JPL
 OPERATOR(S): T. Hoag
 WEATHER: clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)					Field Parameters					Sample			
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	221.99	✓	221.28	✓	221.28	✓	221.99	1618	674	7.33	18	5.01	0740	MW-3-5
									180.44	✓	180.44	✓	180.56							
4	2	✓	✓	✓	✓	✓	180.56	✓	180.44	✓	180.44	✓	180.56	1617	529	7.30	10	4.65	0815	MW-3-4
							180.54	✓	180.42	✓	180.42	✓	180.54						0830	Dup-8-2022
3	1	✓	✓	✓	✓	✓	88.10	✓	88.70	✓	88.70	✓	88.10	17.4	624	6.90	8	4.35	0915	MW-3-3
2	1	✓	✓	✓	✓	✓	47.10	✓	48.03	✓	48.03	✓	47.10	17.4	540	7.18	4	4.09	1000	MW-3-2
	2	✓	✓	✓	✓	✓	47.11	✓	48.02	✓	48.02	✓	47.11							
	3	✓	✓	✓	✓	✓	47.12	✓	48.02	✓	48.02	✓	47.12							
1	1	✓	✓	✓	✓	✓	14.10	✓	21.38	✓	21.24	✓	14.10	21.5	583	7.71	3	4.31	1120	MW-3-1
	2	✓	✓	✓	✓	✓	14.11	✓	21.36	✓	21.23	✓								

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-04
 SAMPLING DATE(S): 04/27/22 + 04/28/22
 LOCATION: SPL
 WATER LEVEL INSIDE CASING: 172.31
 ATM. PRESSURE (PSI): (Start) 14.04 (Finish) 14.02

PROBE TYPE: Westbay
 SERIAL NO.: FMS 2502
 PROJECT: SPL
 OPERATOR(S): T. Hoag
 WEATHER: Clear

Port Number	Run Number	Probe to Top Collar						Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)						Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out / Close Valve / Check Vacuum	Open Valve / Apply Vacuum (3 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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID						
5	1	✓	✓	✓	✓	✓	167.24	✓	169.53	✓	169.53	✓	167.24	19.10	550	7.84	3	4.71	1320	MW-04-5						
4	1	✓	✓	✓	✓	✓	114.41	✓	117.18	✓	117.18	✓	114.42	19.10	593	7.71	16	4.33	1345	MW-04-4						
	2	✓	✓	✓	✓	✓	114.33	✓	117.16	✓	117.16	✓	114.33					1400	Dup-3-2022							
3	1	✓	✓	✓	✓	✓	83.84	✓	86.92	✓	86.92	✓	83.86	19.10	615	7.70	1.3	4.05	1435	MW-4-3						
2	1	✓	✓	✓	✓	✓	48.06	✓	52.08	✓	52.08	✓	48.06	14.9	920	7.17	8	3.91	0715	MW-4-2						
	2	✓	✓	✓	✓	✓	48.04	✓	52.04	✓	52.04	✓	48.04													
	3	✓	✓	✓	✓	✓	48.03	✓	52.04	✓	52.04	✓	48.04													
1	1	✓	✓	✓	✓	✓	14.13	✓	20.33	✓	20.33	✓	14.15	13.2	516	7.64	5	4.04	0845	MW-4-1						
	2	✓	✓	✓	✓	✓	14.14	✓	20.32	✓	20.32	✓	14.14													

Comments:

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: Mw-4
 SAMPLING DATE(S): 5/16/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 172.08
 ATM. PRESSURE (PSI): (Start) 14.16 (Finish) 14.11

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): Gianni Castanon
 WEATHER: Sunny Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample		
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm) mg/L	Sample Time	Sample ID
2	1	✓	✓	✓	✓	✓	48.46	✓	51.86	✓	51.86	✓	48.46	18.5	843	7.50	35	3.26	0750	Mw-4-2
	2	✓	✓	✓	✓	✓	48.01	✓	51.87	✓	51.86	✓	48.01							
	3	✓	✓	✓	✓	✓	48.01	✓	51.86	✓	51.86	✓	48.01							

(extended list)

Comments: _____

WELL MONITORING DATA SHEET

Project #: 220422 HH-1	Site: JPL
Sampler: GC	Date: 5/5/22
Well I.D.: Mw-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 135.17	Depth to Water (DTW): 131.15
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>RVC</u> Grade	Flow Cell Type: YSI
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Flow Rate = _____
 _____ (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² *
0.163			

Time	Temp (°F or <u>C</u>)	pH	Cond. (mS or <u>C</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0922	14.4	7.20	399.7	130	3.52	189	—	—
Grab Sample taken								

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 5/5/22 Sampling Time: 0930 Depth to Water: 133.52

Sample I.D.: Mw-5 Laboratory: Pace

Analyzed for: _____ Other: See LOC

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 220422-7111	Site: JPL
Sampler: GC	Date: 5/5/22
Well I.D.: MW-6	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 237.59	Depth to Water (DTW): DW
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Flow Rate= _____

$$\frac{\text{Gals. X}}{\text{Specified Volumes}} = \frac{\text{Gals.}}{\text{Calculated Volume}}$$

1 Case Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
		*		Dry well		*		
		*		No Sample Taken		*		

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ Laboratory: _____

Analyzed for: _____ Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>220422-#111</u>	Site: <u>JPL</u>
Sampler: <u>bc</u>	Date: <u>5/5/22</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth (TD): <u>284.20</u>	Depth to Water (DTW): <u>Dry</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type <u>YSI</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Flow Rate= _____

_____ (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
		*	Dry well			*		
		*	No Sample Taken					*

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ Laboratory: _____

Analyzed for: _____ Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 220422-441	Site: JPL
Sampler: GC	Date: 5/5/22
Well I.D.: MW-8	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 202.11	Depth to Water (DTW): 202.11 - ^{GC} 195.52
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Flow Rate = _____
 _____ (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1433	21.3	7.48	324.2	153	3.85	151.7	_____	_____
Grab Sample taken								

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 5/5/22 Sampling Time: 1435 Depth to Water: 195.22

Sample I.D.: MW-8 Laboratory: Pace

Analyzed for: _____ Other: See LOC

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 220422 HH -1	Site: JPL
Sampler: GC	Date: 5/5/22
Well I.D.: Mw-9	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 60.00	Depth to Water (DTW): 19.07 (40.93)
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type YSI Pro +
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.25	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Flow Rate= 1224 @ 2.56 PM

26	(Gals.) X	3	=	78	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	<u>4"</u>	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	DTW Observations
1230	21.1	7.56	577.3	14	7.93	137.3	16	19.23
1238	20.2	7.19	545.9	5	7.48	146.3	32	19.35
1245	20.0	6.97	550.3	5	7.13	147.5	48	19.43
1252	21.2	6.95	580.2	6	6.95	156.3	64	20.45
1259	21.2	6.87	582.7	6	6.83	158.7	78	21.52

Did well dewater? Yes Gallons actually evacuated: 78

Sampling Date: 5/5/22 Sampling Time: 1302 Depth to Water: 21.58

Sample I.D.: ~~Dup~~ Mw-9 Laboratory: Pace

Analyzed for: _____ Other: See COC

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): Dup-6-2022

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____ 1317

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 220422-441	Site: JPL
Sampler: GC	Date:
Well I.D.: MW-10	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 153.40	Depth to Water (DTW): 151.31
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVE</u> Grade	Flow Cell Type: YSI
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

Flow Rate= _____

	(Gals.) X		=	Gals.
1 Case Volume	Specified Volumes	Calculated Volume		

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0749	18.0	7.38	409.3	71000	4.23	166		
* Grab sample taken *								

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 5/5/22 Sampling Time: 0750 Depth to Water: 152.75

Sample I.D.: MW-10 Laboratory: _____

Analyzed for: _____ Other: See COC

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: MW-11
 SAMPLING DATE(S): 4/28/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 203.97
 ATM. PRESSURE (PSI): (Start) 14.04 (Finish) 14.06

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): T. Hoang
 WEATHER: cloudy

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)					Field Parameters					Sample		
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
4	1	✓	✓	✓	✓	✓	156.95	✓	152.87	✓	152.87	✓	156.95	17.4	403	7.48	6	3.85	1045	MW-11-5
5	1	✓	✓	✓	✓	✓	204.40	✓	179.47	✓	179.47	✓	204.40	20.0	350	7.37	226	5.11	1145	MW-11-5
	2	✓	✓	✓	✓	✓	204.33	✓	179.45	✓	179.45	✓	204.33							
3	1	✓	✓	✓	✓	✓	115.58	✓	111.07	✓	111.07	✓	115.58	21.0	263	7.71	5	4.65	1235	MW-11-3
																				Dup 4-28-22 (6)
2	1	✓	✓	✓	✓	✓	41.81	✓	43.21	✓	43.21	✓	41.81	26.0	465	7.42	7	5.01	1310	MW-11-2
	2	✓	✓	✓	✓	✓	41.80	✓	43.20	✓	43.20	✓	41.80						1325	Dup-4-28-22
1	1	✓	✓	✓	✓	✓	14.08	✓	23.18	✓	23.18	✓	14.13	23.4	577	7.61	5	4.77	1405	MW-11-1
		✓	✓	✓	✓	✓	14.12	✓	23.17	✓	23.17	✓	14.12							

Comments: _____

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: 1MW-12
 SAMPLING DATE(S): 09/29/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: _____
 ATM. PRESSURE (PSI): (Start) _____ (Finish) _____

PROBE TYPE: _____
 SERIAL NO.: _____
 PROJECT: JPL
 OPERATOR(S): I. Hawn
 WEATHER: Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample	
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
			— Obstruction in well —																	
			— No Sample Taken —																	

Comments: _____

WELL MONITORING DATA SHEET

Project #: <u>220422-FAH1</u>	Site: <u>JPL</u>
Sampler: <u>GC</u>	Date: <u>5/5/22</u>
Well I.D.: <u>MW-13</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>234.34</u>	Depth to Water (DTW): <u>Dry</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> <u>Grade</u>	Flow Cell Type: <u>YSI</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

Flow Rate= _____
 _____ (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
		*		well dry		*		
		*		No Sample taken				*

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ Laboratory: _____

Analyzed for: _____ Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: MW-14
 SAMPLING DATE(S) 04/26/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 198.95
 ATM. PRESSURE (PSI): (Start) 14.00 (Finish) 14.03

PROBE TYPE Westby
 SERIAL NO. EMS 2502
 PROJECT: JPL
 OPERATOR(S) T. Hean
 WEATHER Clear

JPL
 T. Hean
 4/26/22

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)					Field Parameters					Sample			
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	167.48	✓	149.13	✓	149.13	✓	167.48	18.4	386	7.50	4	5.05	0745	MW-14-5
4	1	✓	✓	✓	✓	✓	130.87	✓	112.88	✓	112.88	✓	130.87	20.0	604	7.05	3	4.10	0830	MW-14-4
	2	✓	✓	✓	✓	✓	130.69	✓	112.86	✓	112.86	✓	130.69							INS/MSD
3	1	✓	✓	✓	✓	✓	98.93	✓	80.76	✓	80.76	✓	98.55	21.0	1068	7.33	3	4.07	0930	MW-14-3
	2	✓	✓	✓	✓	✓	98.52	✓	80.76	✓	80.76	✓	98.55						0945	Dup-2-2022
	3	✓	✓	✓	✓	✓	96.49	✓	80.75	✓	80.75	✓	96.49							
2	1	✓	✓	✓	✓	✓	52.69	✓	35.19	✓	35.19	✓	52.69	21.8	1206	7.23	3	4.35	1045	MW-14-2
1	1	✓	✓	✓	✓	✓	18.52	✓	14.10	✓	14.10	✓	18.52	- Port is Dry - No Sample -					MW-14-1	

Comments: _____

WELL MONITORING DATA SHEET

Project #: 220422-444-1	Site: JPL
Sampler: GC	Date: 5/5/22
Well I.D.: NW-15	Well Diameter: 2 3 @ 6 8
Total Well Depth (TD): 60.00	Depth to Water (DTW): 30.71 (29 29)
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVO</u> Grade	Flow Cell Type YSI
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 36.58	

Purge Method: Bailer Watertra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other Dedicated pump Dedicated Tubing
 Other: (circle)

Flow Rate= 1330 @ 2.6 GPM

19 (Gals.) X	3	= 60 Gals.
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	(circle) 6"	0.65
2"	0.16	Other	1.47
3"	0.37		radius ² *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1336	20.9	7.08	545.7	8	9.10	154.1	12	32.00
1342	20.7	7.08	547.5	7	8.61	157.2	24	32.00
1348	20.2	7.07	555.8	4	8.35	160.3	36	32.00
1354	19.7	7.09	552.3	4	8.20	162.5	48	32.00
1400	18.5	7.10	556.7	3	8.13	162.8	60	32.00

Did well dewater? Yes No Gallons actually evacuated: 60

Sampling Date: 5/5/22 Sampling Time: 1404 Depth to Water: 31.24

Sample I.D.: NW-15 Laboratory: Pace

Analyzed for: _____ Other: See LOC

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): Dup-7 -2Q22

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: PMS/msd M19

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

WELL MONITORING DATA SHEET

Project #: <u>220422 - HH1</u>	Site: <u>JPL</u>
Sampler: <u>LC</u>	Date: <u>5/5/22</u>
Well I.D.: <u>MW-16</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>284.71</u>	Depth to Water (DTW): <u>283.93</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSI
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Flow Rate = _____
 _____ (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
0.163	0.37	Other	radius ² *

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
				insufficient				
				No Sample / No purge				

Did well dewater?	Yes	No	Gallons actually evacuated:
Sampling Date:	Sampling Time:	Depth to Water:	
Sample I.D.:	Laboratory:		
Analyzed for:	Other:		
EB I.D. (if applicable):	@ Time	Duplicate I.D. (if applicable):	
FB I.D. (if applicable):	@ Time	Analyze for:	
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

1062

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-17
 SAMPLING DATE(S): 5/4/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 211.22
 ATM. PRESSURE (PSI): (Start) 14.00 (Finish) 14.03

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S):
 WEATHER: Sunny / Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample		
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	239.68	✓	189.44	✓	189.44	✓	239.68	19.3	782	7.82	2	4.87	0825	MW-17-5
2															719.5					
4	1	✓	✓	✓	✓	✓	177.27	✓	129.45	✓	129.45	✓	177.28	19.4	752.1	7.54	1	6.32	0857	MW-17-4
	2	✓	✓	✓	✓	✓	177.28	✓	129.46	✓	129.44	✓	177.28							
3	1	✓	✓	✓	✓	✓	127.78	✓	96.58	✓	96.58	✓	127.78	21.8	630.2	7.55	2	3.67	1010	MW-17-3
	2	✓	✓	✓	✓	✓	127.78	✓	96.57	✓	96.57	✓	127.76							
	3	✓	✓	✓	✓	✓	127.74	✓	96.57	✓	96.57	✓	127.74							
	4	✓	✓	✓	✓	✓	127.30	✓	96.57	✓	96.57	✓	127.30							
2	1	✓	✓	✓	✓	✓	85.13	✓	58.19	✓	58.19	✓	85.13	24.5	482.7	8.08	5	3.88	1205	MW-17-2
	2	✓	✓	✓	✓	✓	85.12	✓	58.19	✓	58.19	✓	85.12							MS/MSD
1	1	✓	✓	✓	✓	✓	32.89	✓	18.50	✓	18.50	✓	32.89	23.8	641.0	7.72	3	3.52	1305	MW-17-1

Comments: collar defect is 6" above sample port

2 of 2

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-17
 SAMPLING DATE(S): 5/1/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 211.22
 ATM. PRESSURE (PSI): (Start) 14.04 (Finish) 14.03

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): T. Hoang
 WEATHER: Sunny Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample		
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
1	2	✓	✓	✓	✓	✓	32.04	✓	18.48	✓	18.48	✓	32.04							

Comments: _____

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: Mw-18
 SAMPLING DATE(S): 5/3/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 296.53
 ATM. PRESSURE (PSI): (Start) 14.01 (Finish) 14.07

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S):
 WEATHER: cloudy

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample		
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	137.26	✓	163.52	✓	163.52	✓	187.26	18.6	320	7.86	4	2.91	1030	Mw-18-5
4	1	✓	✓	✓	✓	✓	134.99	✓	115.68	✓	115.68	✓	134.99	8.2	432	7.73	3	3.15	1120	Mw-18-4
	2	✓	✓	✓	✓	✓	134.95	✓	115.67	✓	115.67	✓	134.95							
	3	✓	✓	✓	✓	✓	134.90	✓	115.67	✓	115.67	✓	134.90							
3	1	✓	✓	✓	✓	✓	73.18 73.90	✓	66.30	✓	66.30	✓	73.90	23.0	613	7.93	4	6.16	1245	Mw-18-3
2	1	✓	✓	✓	✓	✓	32.86	✓	28.14	✓	28.14	✓	32.86	25.7	465	7.94	3	4.85	1320	Mw-18-2
1	1	✓	✓	✓	✓	✓	14.13	✓	14.13	✓	14.13	✓	14.14	-	-	Port is Dry			-	-

Comments:

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: MW-19
 SAMPLING DATE(S): 4/26/12
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 193.05
 ATM. PRESSURE (PSI): (Start) 14.01 (Finish) 14.02

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2302
 PROJECT: JPL
 OPERATOR(S): Fr Hoan T. Hoang
 WEATHER: cloudy

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample			
		Arm out / Land Probe	Shoe Out / Close Valve / Check Vacuum	Open Valve / Apply Vacuum (to psi)	Close Valve / Shoe In / Mem In	Locate Port / Arm Out / Seal 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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID	
5	1	✓	✓	✓	✓	✓	169.82	✓	118.14	✓	118.12	✓	169.82	16.5	911	6.96	2	4.15	0735	MW-19-5	
4	1	✓	✓	✓	✓	✓	146.40	✓	94.95	✓	94.95	✓	146.40	16.9	875	6.99	3	4.35	0810	MW-19-4	
3	1	✓	✓	✓	✓	✓	123.80	✓	87.56	✓	87.56	✓	123.80	16.8	942	6.91	3	4.65	0840	MW-19-3	
	2	✓	✓	✓	✓	✓	123.76	✓	87.55	✓	87.55	✓	123.76					0840	MS / MSD		
2	1	✓	✓	✓	✓	✓	89.91	✓	54.19	✓	54.19	✓	89.91	19.9	121	7.25	8	5.04	0935	MW-19-2	
	2	✓	✓	✓	✓	✓	89.91	✓	54.17	✓	54.17	✓	89.91								
	3	✓	✓	✓	✓	✓	89.90	✓	53.97	✓	53.97	✓	89.90								
1	1	✓	✓	✓	✓	✓	58.60	✓	24.70	✓	24.70	✓	58.60	21.6	690	8.07	4	4.05	1110	MW-19-1	
	2	✓	✓	✓	✓	✓	57.33	✓	24.70	✓	24.70	✓	57.33								

Comments:

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: MW-20
 SAMPLING DATE(S) 05/03/22 + / 05/06/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 248.74 / 249.24
 ATM. PRESSURE (PSI): (Start) 14.04 (Finish) 14.07

PROBE TYPE: Westbay
 SERIAL NO.: FMS 250C
 PROJECT: JPL
 OPERATOR(S): I. Haem
 WEATHER: Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out / Close Valve / Check Vacuum	Open Valve / Apply Vacuum (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)	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	302.15	✓	295.54	✓	295.54	✓	302.16	22.91	317.6	7.46	2	4.52	1450	MW-20-5
4	1	✓	✓	✓	✓	✓	214.97	✓	199.47	✓	199.47	✓	214.97	21.3	341.8	7.71	2	3.65	1525	MW-20-4
3	1	✓	✓	✓	✓	✓	154.91	✓	142.46	✓	142.46	✓	154.91	23.2	388.2	7.23	15	3.37	1030	MW-20-3
2	1	✓	✓	✓	✓	✓	80.78	✓	72.35	✓	72.36	✓	80.78	22.8	753.7	7.18	3	4.01	1115	MW-20-2
	2	✓	✓	✓	✓	✓	80.76	✓	72.28	✓	72.28	✓	80.76						1130	Rep-8-2022
1	1	✓	✓	✓	✓	✓	14.17	✓	14.15	✓	14.15	✓	14.17	-	-	-	Dry Port / No Sample			-

AC
 ↓
 5/6/22
 ↓

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-21
MW-11
 SAMPLING DATE(S) 04/26/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 119.09
 ATM. PRESSURE (PSI): (Start) 14.01 (Finish) 14.03

PROBE TYPE Westbay
 SERIAL NO. EMS2502
 PROJECT: JPL
 OPERATOR(S) T. Hoang
 WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample	
		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 (uS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
4	1	✓	✓	✓	✓	✓	102.19	✓	97.45	✓	97.45	✓	102.19	23.7	929	7.15	3	4.77	1215	MW-21-4
5	1	✓	✓	✓	✓	✓	128.67	✓	124.31	✓	124.31	✓	128.67	24.6	892	7.33	2	4.41	1245	MW-21-5
7	1	✓	✓	✓	✓	✓	72.00	✓	67.57	✓	67.57	✓	72.00	21.5	1185	7.23	2	4.05	1315	MW-21-3
2	1	✓	✓	✓	✓	✓	37.53	✓	33.43	✓	33.43	✓	37.53	24.7	1353	7.33	2	3.99	1345	MW-21-2
	2	✓	✓	✓	✓	✓	37.51	✓	33.41	✓	33.41	✓	37.51							MS / MSD
	3	✓	✓	✓	✓	✓	34.98	✓	33.41	✓	33.41	✓	34.98							
1	1	✓	✓	✓	✓	✓	14.14	✓	33.44	✓	14.16	✓	14.14	- Port is Dry - No Sample -						MW-21-1

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-22
 SAMPLING DATE(S) 04/29/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 238.73
 ATM. PRESSURE (PSI): (Start) 14.03 (Finish) 14.02

PROBE TYPE Westbay
 SERIAL NO. EM52
 PROJECT: JPL
 OPERATOR(S) J. Hagan
 WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample		
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	171.24	✓	157.94	✓	157.94	✓	171.24	17.0	492	7.98	4	ms/L 3.05	0845	MW-22-5
4	1	✓	✓	✓	✓	✓	118.55	✓	108.68	✓	108.68	✓	118.55	17.1	384	7.11	3	3.61	0920	MW-22-4
3	1	✓	✓	✓	✓	✓	84.56	✓	80.05	✓	80.05	✓	84.56	18.6	532	7.08	3	3.73	0948	MW-22-3
2	1	✓	✓	✓	✓	✓	58.37	✓	53.93	✓	53.93	✓	58.37	20.9	575	6.98	3	4.04	1030	MW-22-2
1	1	✓	✓	✓	✓	✓	21.26	✓	17.58	✓	17.58	✓	21.26	19.8	1167	6.86	2	4.30	1115	MW-22-1
	2	✓	✓	✓	✓	✓	18.75	✓	17.58	✓	17.58	✓	18.75							

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-23
 SAMPLING DATE(S): 07/25/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 148.142, 89
 ATM. PRESSURE (PSI): (Start) 14.01 (Finish) 14.03

PROBE TYPE: Westbay
 SERIAL NO.: EMS2502
 PROJECT: JPL
 OPERATOR(S): T. Hoan
 WEATHER: Clear

DT

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)					Field Parameters					Sample		
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	189.28	✓	167.95	✓	167.95	✓	189.28	21.8	623	7.32	4	4.15	0850	MW-23-5
4	1	✓	✓	✓	✓	✓	147.23	✓	125.98	✓	125.98	✓	147.23	20.4	470	7.16	3	4.01	0920	MW-23-4
3	1	✓	✓	✓	✓	✓	92.69	✓	77.52	✓	77.52	✓	92.69	22.8	595	7.40	2	4.05	1000	MW-23-3
2	1	✓	✓	✓	✓	✓	64.38	✓	49.46	✓	49.46	✓	64.38	23.5	1062	7.13	2	4.20	1015	MW-23-2
	2	✓	✓	✓	✓	✓	64.37	✓	49.45	✓	49.45	✓	64.37						1030	DUP-1-2022
1	1	✓	✓	✓	✓	✓	29.56	✓	15.61	✓	15.61	✓	29.56	25.5	1047	7.42	3	5.06	1130	MW-23-1
	2	✓	✓	✓	✓	✓	28.91	✓	15.57	✓	15.57	✓	28.91							

Comments:

**WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET**

WELL ID: MW-24
 SAMPLING DATE(S) 09/25/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 297.88
 ATM. PRESSURE (PSI): (Start) 14.00 (Finish) 14.02

PROBE TYPE Westbay
 SERIAL NO. EMS2502
 PROJECT: JPL
 OPERATOR(S) J. Hoag
 WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample		
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
4	1	✓	✓	✓	✓	✓	147.01	✓	131.52	✓	131.52	✓	147.01	26.0	276	7.47	3	5.89	1245	MW-24-4
5	1	✓	✓	✓	✓	✓	200.30	✓	178.62	✓	178.62	✓	200.30	25.2	405	7.56	2	4.33	1315	MW-24-5
	2	✓	✓	✓	✓	✓	199.61	✓	178.61	✓	178.61	✓	199.61							
3	1	✓	✓	✓	✓	✓	95.34	✓	86.73	✓	86.73	✓	95.39	26.1	617	7.20	2	4.71	1400	MW-24-3
2	1	✓	✓	✓	✓	✓	68.38	✓	60.58	✓	60.58	✓	68.38	26.3	760	7.39	1	4.95	1430	MW-24-2
	2	✓	✓	✓	✓	✓	68.35	✓	60.59	✓	60.59	✓	68.35						1430	MS/MSd
1	1	✓	✓	✓	✓	✓	27.57	✓	23.17	✓	23.17	✓	27.57	27.1	725	7.71	7	5.10	1530	MW-24-1
	2	✓	✓	✓	✓	✓	27.54	✓	23.15	✓	23.15	✓	27.54							
	3	✓	✓	✓	✓	✓	27.55	✓	23.14	✓	23.14	✓	27.55							

Comments: EB-1-042522 6 fibers @ 5

SB-1-042522

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-25
 SAMPLING DATE(S): 5/2 1/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 248.75
 ATM. PRESSURE (PSI): (Start) 14.13 (Finish) 14.11

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): T. Hous
 WEATHER: Sunny clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample			
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID	
✓	1	✓	✓	✓	✓	✓	220.3	✓	212.18	✓	212.15	✓	220.3	25.3	511	7.28	8	4.02	1335	MW-25-5	
									178.75												
	4	✓	✓	✓	✓	✓	185.68	✓	178.75	✓	178.77	✓	185.68	24.5	276	7.25	6	4.33	1400	MW-25-4	
	3	✓	✓	✓	✓	✓	129.27	✓	124.15	✓	124.15	✓	129.27	24.6	268	7.33	4	4.09	1435	MW-25-3	
	2	✓	✓	✓	✓	✓	129.24	✓	124.15	✓	124.15	✓	129.24								M5 / M5D
	2	✓	✓	✓	✓	✓	94.47	✓	90.88	✓	90.98	✓	94.46	18.7	974	6.91	4	4.11	0755	MW-25-2	
	1	✓	✓	✓	✓	✓	66.11	✓	63.44	✓	63.44	✓	66.11	18.3	921	7.03	5	3.91	0825	MW-25-1	

Comments: Collar defect 2' below sample port.

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: Mw-26
 SAMPLING DATE(S): 4/29/12
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 59.81
 ATM. PRESSURE (PSI): (Start) 14.10 (Finish) 14.08

PROBE TYPE: Westbay
 SERIAL NO.: E MS 2502
 PROJECT: JPL
 OPERATOR(S): T. Hoang
 WEATHER: Sunny/clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample	
		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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	Sample Time	Sample ID
2	1	✓	✓	✓	✓	✓	84.15	✓	46.59	✓	46.59	✓	84.15	21.2	789	7.25	3	3.79	1320	Mw-26-2
	2	✓	✓	✓	✓	✓	83.59	✓	46.58	✓	46.58	✓								
1	1	✓	✓	✓	✓	✓	46.69	✓	14.18	✓	14.14	✓	-	-	-	-	Part is Dry			-

Comments:
