

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-9, 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 fourth quarter 2022 sampling event was conducted by Blaine Tech Services, Inc.

Note: During the fourth quarter 2022 the relatively shallow standpipe wells MW-5, MW-6, MW-7, MW-8, MW-10, MW-13, and MW-16 and the uppermost sampling ports (i.e., Screen 1) in the multi-port monitoring wells MW-3, MW-4, MW-12, MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, MW-23, and MW-26 were dry and no samples were collected.

WELL MONITORING DATA SHEET

Project #: <u>221021-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/03/22</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 ___
Total Well Depth (TD): <u>110.00</u>	Depth to Water (DTW): <u>43.59</u>
Depth to Free Product:	Thickness of Free Product (feet):
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>56.87</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: <u>Deelpump</u>		Dedicated Tubing
			Other: <u> </u>	

Flow Rate= 26PM

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			

<u>43.2</u>	(Gals.) X	<u>3</u>	=	<u>129.6</u> Gals.
I Case Volume		Specified Volumes		Calculated Volume

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	DTW Observations
<u>1100</u>	<u>16.2</u>	<u>7.55</u>	<u>608</u>	<u>3</u>	<u>1.43</u>	<u>27.6</u>	<u>22</u>	<u>43.65</u>
<u>1111</u>	<u>16.2</u>	<u>7.44</u>	<u>607</u>	<u>2</u>	<u>1.34</u>	<u>29.9</u>	<u>44</u>	<u>43.65</u>
<u>1122</u>	<u>16.2</u>	<u>7.25</u>	<u>609</u>	<u>2</u>	<u>1.25</u>	<u>33.3</u>	<u>66</u>	<u>43.65</u>
<u>1133</u>	<u>16.4</u>	<u>6.94</u>	<u>606</u>	<u>2</u>	<u>1.23</u>	<u>59.2</u>	<u>88</u>	<u>43.65</u>
<u>1144</u>	<u>16.5</u>	<u>6.92</u>	<u>607</u>	<u>2</u>	<u>1.23</u>	<u>61.2</u>	<u>110</u>	<u>43.65</u>
<u>1154</u>	<u>16.5</u>	<u>6.91</u>	<u>606</u>	<u>2</u>	<u>1.22</u>	<u>61.3</u>	<u>130</u>	<u>43.65</u>

Did well dewater? Yes No Gallons actually evacuated: 130

Sampling Date: 11/04/22 Sampling Time: 1155 Depth to Water: 43.65

Sample I.D.: MW-1 Laboratory: PACE

Analyzed for: Other: See C.O.C

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
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O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:		mV
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WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-3
 SAMPLING DATE(S) 10/27/22
 LOCATION: Creek
 WATER LEVEL INSIDE CASING: 202.52
 ATM. PRESSURE (PSI): (Start) 14.16 (Finish) 14.18

PROBE TYPE Westbay
 SERIAL NO. EMS 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 (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	ORP (mv)	Sample Time	Sample ID
3	1	✓	✓	✓	✓	✓	214.29	✓	212.74	✓	212.74	✓	214.29	11.4	1265	7.13	109	8.06	89	1125	MW-3-5
4	1	✓	✓	✓	✓	✓	172.73	✓	172.34	✓	172.34	✓	172.73	20.6	565	6.55	40	6.90	102	1200	MW-3-4
	2	✓	✓	✓	✓	✓	172.60	✓	172.33	✓	172.33	✓	172.60							1210	DUP-6-4&22
3	1	✓	✓	✓	✓	✓	80.36	✓	80.59	✓	80.59	✓	80.36	20.9	521	6.69	20	6.85	113	1250	MW-3-3
2	1	✓	✓	✓	✓	✓	39.46	✓	39.87	✓	39.87	✓	39.46	20.2	517	6.82	10	6.51	116	1315	MW-3-2
1	1	✓	✓	✓	✓	✓	14.18	✓	14.16	✓	14.16	✓	14.18								Port is Dry - No Sample

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-4
 SAMPLING DATE(S) 10/31/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 171.92
 ATM. PRESSURE (PSI): (Start) 14.07 (Finish) 14.15

PROBE TYPE Westbay
 SERIAL NO. EWS-2502
 PROJECT: JPL
 OPERATOR(S) J. Hays
 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)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	165.75	✓	162.20	✓	162.20	✓	165.75	15.9	938	6.94	12	7.10	130	0745	MW-4-5
4	1	✓	✓	✓	✓	✓	112.53	✓	109.72	✓	109.72	✓	112.53	16.5	575	6.77	9	7.65	136	0810	MW-4-4
3	1	✓	✓	✓	✓	✓	81.79	✓	79.39	✓	79.39	✓	81.79	17.4	681	6.91	3	8.09	134	0535	MW-4-3
	2	✓	✓	✓	✓	✓	81.67	✓	79.38	✓	79.38	✓	81.67							0845	RP-7.4622
2	1	✓	✓	✓	✓	✓	45.73	✓	44.19	✓	44.19	✓	45.73	20.3	944	6.53	2	6.90	128	0930	MW-4-2
1	1	✓	✓	✓	✓	✓	14.20	✓	14.19	✓	14.19	✓	14.20	- Port is Dry -					- No Sample -		

Comments: _____

WELL MONITORING DATA SHEET

Project #: <u>221021-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/03/22</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth (TD): <u>135.47</u>	Depth to Water (DTW): <u>134.27</u>
Depth to Free Product:	Thickness of Free Product (feet):
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

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
<u>- Insufficient water to sample -</u>								
<u>- No Sample Taken -</u>								

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>221021-111</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/02/22</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>237.54</u>	Depth to Water (DTW): <u>DRY</u>
Depth to Free Product:	Thickness of Free Product (feet):
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.
 I 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
<u>— Well is Dry —</u>								
<u>— No Sample Taken —</u>								

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>221021-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/02/22</u>
Well I.D.: <u>MMW-7</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>268.20</u>	Depth to Water (DTW): <u>DRY</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type <u>YSI</u>
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
								<u>— well is Dry —</u>
								<u>— No Sample Taken —</u>

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>221021-HH1</u>	Site: <u>SPL</u>
Sampler: <u>HH</u>	Date: <u>11/02/22</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth (TD): <u>202.15</u>	Depth to Water (DTW): <u>DRY</u>
Depth to Free Product:	Thickness of Free Product (feet):
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* *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
— Well is 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

WELL MONITORING DATA SHEET

Project #: <u>221021-HH1</u>		Site: <u>JPL</u>	
Sampler: <u>HH</u>		Date: <u>11/03/22</u>	
Well I.D.: <u>MW-9</u>		Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>	
Total Well Depth (TD): <u>68.00</u>		Depth to Water (DTW): <u>38.11</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>44.08</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 (Deed Pump) Dedicated (Tubing)

Other:

Flow Rate = 20 RPM

<u>19.5</u> (Gals.) X <u>3</u> = <u>58.5</u> 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	DTW
								Observations
1245	19.3	6.71	598	131	2.34	145.1	10	41.52
1250	19.5	6.60	572	89	1.42	105.5	20	41.53
1255	19.6	6.51	568	60	0.71	95.4	30	41.53
1300	19.5	6.51	566	57	0.62	90.8	40	41.53
1305	19.5	6.50	563	55	0.60	87.1	50	41.53
1310	19.5	6.50	561	53	0.59	85.6	60	41.53

Did well dewater? Yes (No) Gallons actually evacuated: 60

Sampling Date: 11/03/22 Sampling Time: 1315 Depth to Water: 41.53

Sample I.D.: MW-9 Laboratory: PACE

Analyzed for: (Other) See O.C.

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 #: 221021-HH1	Site: JPL
Sampler: HH	Date: 11/02/22
Well I.D.: MW-10	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 153.50	Depth to Water (DTW): DRY
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
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 is 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-11
 SAMPLING DATE(S) 11/01/22
 LOCATION: SPL
 WATER LEVEL INSIDE CASING: 220.73
 ATM. PRESSURE (PSI): (Start) 14.07 (Finish) 14.12

PROBE TYPE Westbay
 SERIAL NO. E1052502
 PROJECT: SPL
 OPERATOR(S) T. Horgan
 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)	ORP (mv)	Sample Time	Sample ID	
3	1	✓	✓	✓	✓	✓	197.23	✓	173.57	✓	173.57	✓	197.23	20.5	977	7.10	3	8.05	134	1145	MW-11-5	
	2	✓	✓	✓	✓	✓	196.19	✓	173.51	✓	173.51	✓	196.19									
4	1	✓	✓	✓	✓	✓	148.64	✓	146.43	✓	146.43	✓	148.64	21.1	294	7.39	2	7.11	28	1230	MW-11-4	
3	1	✓	✓	✓	✓	✓	107.57	✓	103.83	✓	103.83	✓	107.57	21.0	325	7.11	2	7.44	74	1255	MW-11-3	
2	1	✓	✓	✓	✓	✓	33.76	✓	35.34	✓	35.34	✓	33.76	21.1	453	7.05	1	6.85	64	1325	MW-11-2	
	2	✓	✓	✓	✓	✓	33.73	✓	35.32	✓	35.32	✓	33.73								1335	DWP-8-4Q22
1	1	✓	✓	✓	✓	✓	14.01	✓	17.69	✓	17.69	✓	14.01	22.2	567	7.25	2	6.90	118	1355	MW-11-1	

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-12
 SAMPLING DATE(S): 10/31/22
 LOCATION: JDL
 WATER LEVEL INSIDE CASING: 177.14
 ATM. PRESSURE (PSI): (Start) 14.09 (Finish) 14.13

PROBE TYPE: Westbay
 SERIAL NO.: EMW2562
 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 (g 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)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	179.53	✓	150.49	✓	150.49	✓	179.53	19.1	460	7.06	2.0	6.81	130	1050	MW-12-5
4	1	✓	✓	✓	✓	✓	130.80	✓	117.94	✓	117.94	✓	130.80	18.6	480	7.05	2	7.10	135	1125	MW-12-4
3	1	✓	✓	✓	✓	✓	81.46	✓	71.70	✓	71.70	✓	81.46	18.5	463	7.15	3	7.55	140	1210	MW-12-3
2	1	✓	✓	✓	✓	✓	46.48	✓	37.86	✓	37.86	✓	46.48	18.4	605	7.14	2	6.19	143	1245	MW-12-2
1	1	✓	✓	✓	✓	✓	14.19	✓	14.17	✓	14.17	✓	14.19	Port is Dry - No Sample							

Comments: _____

WELL MONITORING DATA SHEET

Project #: 221021-HH1	Site: JPL
Sampler: HH	Date: 11/02/22
Well I.D.: MW-13	Well Diameter: 2 3 4 6 8 _____
Total Well Depth (TD): 234.05	Depth to Water (DTW): DRY
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 Watterra 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.	
I 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 is 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) 10/25/22
 LOCATION: JPL Padova Lot
 WATER LEVEL INSIDE CASING: 199.99
 ATM. PRESSURE (PSI): (Start) 14.06 (Finish) 14.09

PROBE TYPE Westbay
 SERIAL NO. FMS 2502
 PROJECT: JPL
 OPERATOR(S) JL 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)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	166.93	✓	142.41	✓	142.41	✓	166.93	18.9	2087	6.87	2	7.55	112	0805	MW-14-5
4	1	✓	✓	✓	✓	✓	129.30	✓	106.16	✓	106.16	✓	129.30	11.8	666	6.55	1	7.09	115	0835	MW-14-4
3	1	✓	✓	✓	✓	✓	96.90	✓	74.07	✓	74.07	✓	96.90	20.8	1081	6.71	1	7.39	125	0915	MW-14-3
	2	✓	✓	✓	✓	✓	96.93	✓	74.05	✓	74.05	✓	96.93							0925	DUP-2-4622
2	1	✓	✓	✓	✓	✓	51.20	✓	28.52	✓	28.52	✓	51.20	21.6	1204	6.75	2	8.05	123	1000	MW-14-2
1	1	✓	✓	✓	✓	✓	20.61	✓	14.14	✓	14.14	✓	20.61	— Port is dry — No Sample —							

Comments: _____

WELL MONITORING DATA SHEET

Project #: <u>221021HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/03/22</u>
Well I.D.: <u>MW-15</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth (TD): <u>69.00</u>	Depth to Water (DTW): <u>49.51</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVG)</u> Grade	Flow Cell Type <u>YSI</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>53.40</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: Per pump Dedicated Tubing

Flow Rate = 16PM

<u>12.7</u> (Gals.) X <u>3</u>	<u>=</u>	<u>38.1</u> Gals.
Case Volume		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² *
0.163			

Time	Temp (°F or °C)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	DTW Observations
<u>0900</u>	<u>17.2</u>	<u>7.20</u>	<u>623</u>	<u>5</u>	<u>2.90</u>	<u>461.6</u>	<u>7</u>	<u>50.01</u>
<u>0906</u>	<u>17.2</u>	<u>7.02</u>	<u>612</u>	<u>3</u>	<u>2.76</u>	<u>51.4</u>	<u>13</u>	<u>50.03</u>
<u>0913</u>	<u>17.2</u>	<u>6.98</u>	<u>634</u>	<u>2</u>	<u>2.64</u>	<u>60.7</u>	<u>20</u>	<u>50.03</u>
<u>0919</u>	<u>17.3</u>	<u>6.96</u>	<u>632</u>	<u>2</u>	<u>2.61</u>	<u>62.5</u>	<u>26</u>	<u>50.03</u>
<u>0925</u>	<u>17.2</u>	<u>6.93</u>	<u>629</u>	<u>2</u>	<u>2.60</u>	<u>63.1</u>	<u>32</u>	<u>50.03</u>
<u>0932</u>	<u>17.2</u>	<u>6.92</u>	<u>624</u>	<u>2</u>	<u>2.58</u>	<u>66.2</u>	<u>39</u>	<u>50.03</u>

Did well dewater? Yes No Gallons actually evacuated: 39

Sampling Date: 11/03/22 Sampling Time: 0935 Depth to Water: 50.03

Sample I.D.: MW-15 Laboratory: PACE

Analyzed for: Other: See C.O.C

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

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

ms/msp

WELL MONITORING DATA SHEET

Project #: <u>221021-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/02/22</u>
Well I.D.: <u>MW-16</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>284.51</u>	Depth to Water (DTW): <u>283.93</u>
Depth to Free Product:	Thickness of Free Product (feet):
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
- Insufficient water to Sample -								
- No Sample Taken -								

Did well dewater? Yes No Gallons actually evacuated:
Sampling Date: Sampling Time: Depth to Water: <u> </u>
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-17
 SAMPLING DATE(S): 10/27/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 212.06
 ATM. PRESSURE (PSI): (Start) 14.06 (Finish) 14.09

PROBE TYPE: Westbay
 SERIAL NO.: EIMS 2812
 PROJECT: JPL
 OPERATOR(S): H. Hacy
 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 (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	238.99	✓178.69	✓178.69	✓	238.99	16.3	806	7.11	3	8109	132	0820	MW-17-5		
4	1	✓	✓	✓	✓	✓	176.66	✓122.94	✓122.94	✓	176.66	17.4	1043	6.84	2	7.55	118	0905	MW-17-4		
3	1	✓	✓	✓	✓	✓	127.20	✓88.71	✓88.71	✓	127.20	17.0	574	6.69	2	7.05	116	0935	MW-17-3		
2	1	✓	✓	✓	✓	✓	84.66	✓50.60	✓50.60	✓	84.66	17.2	667	6.95	2	7.33	102	1005	MW-17-2		
	2	✓	✓	✓	✓	✓	84.65	✓50.58	✓50.58	✓	84.65								1015	MS/MSD	
1	1	✓	✓	✓	✓	✓	32.19	✓14.16	✓14.16	✓	32.19	- Port is Dry - No Sample									

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-18
 SAMPLING DATE(S): 11/02/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 295.01
 ATM. PRESSURE (PSI): (Start) 14.03 (Finish) 14.11

PROBE TYPE: Ulothop
 SERIAL NO.: EM5 2502
 PROJECT: JPL
 OPERATOR(S): H. Hwang
 WEATHER: Clear Rain

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)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	185.70	✓	156.49	✓	156.49	✓	185.70	10.16	452	7.40	2	7.05	81	0835	MW-18-5
4	1	✓	✓	✓	✓	✓	133.50	✓	109.02	✓	109.02	✓	133.50	10.0	409	7.23	1	6.85	107	0910	MW-18-4
3	1	✓	✓	✓	✓	✓	12.55	✓	58.53	✓	58.53	✓	12.55	15.6	552	6.80	2	7.10	131	1000	MW-18-3
2	1	✓	✓	✓	✓	✓	31.53	✓	20.19	✓	20.19	✓	31.53	10.6	614	7.00	1	6.90	123	1045	MW-18-2
	2	✓	✓	✓	✓	✓	32.56	✓	20.18	✓	20.18	✓	32.56								MS / MSD
X	X	✓	✓	✓	✓	✓	14.19	✓	14.17	✓	14.17	✓	14.19								Port is Dry - No Sample

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-19
 SAMPLING DATE(S) 10/24/22
 LOCATION: Water Treatment Camp
 WATER LEVEL INSIDE CASING: 144.52
 ATM. PRESSURE (PSI): (Start) 14.09 (Finish) 14.12

PROBE TYPE Westbay
 SERIAL NO. EM52502
 PROJECT: JPL
 OPERATOR(S) L. 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) <i>msl</i>	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	168.96	✓	127.43	✓	127.43	✓	168.96	19.3	1163	6.90	2	7.15	76	1135	MW-19-5
4	1	✓	✓	✓	✓	✓	145.52	✓	103.95	✓	103.95	✓	145.52	18.2	935	6.85	1	6.91	92	1215	MW-19-4
3	1	✓	✓	✓	✓	✓	122.97	✓	83.68	✓	83.68	✓	122.97	19.8	994	6.73	1	6.77	111	1245	MW-19-3
	2	✓	✓	✓	✓	✓	122.91	✓	83.62	✓	83.62	✓	122.91							1245	MS/MSD
2	1	✓	✓	✓	✓	✓	88.97	✓	49.40	✓	49.40	✓	88.97	20.9	1127	6.83	2	7.09	126	1310	MW-19-2
1	1	✓	✓	✓	✓	✓	58.18	✓	18.42	✓	18.42	✓	58.18	21.7	1034	6.75	18	7.33	99	1345	MW-19-1

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-20
 SAMPLING DATE(S) 10/24/22
 LOCATION: Church Park Lot
 WATER LEVEL INSIDE CASING: 249.99
 ATM. PRESSURE (PSI): (Start) 14.10 (Finish) 14.11

PROBE TYPE Westbay
 SERIAL NO. FMS 2502
 PROJECT: SPL
 OPERATOR(S) T. Hoes
 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)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	300.72	✓	290.66	✓	290.66	✓	300.72	16.0	2948	7.21	2	7.91	74	0830	MW-20-5
4	1	✓	✓	✓	✓	✓	213.61	✓	195.93	✓	195.93	✓	213.61	17.7	387	7.18	1	8.05	32	0900	MW-20-4
3	1	✓	✓	✓	✓	✓	153.53	✓	135.62	✓	135.62	✓	153.53	18.9	355	7.23	1	7.83	-49	0935	MW-20-3
2	1	✓	✓	✓	✓	✓	79.56	✓	66.47	✓	66.47	✓	79.56	19.8	731	7.03	1	6.91	89	1005	MW-20-2
	2	✓	✓	✓	✓	✓	79.52	✓	66.45	✓	66.45	✓	79.52							1015	DGP-1-4Q22
1	1	✓	✓	✓	✓	✓	14.117	✓	14.21	✓	14.21	✓	14.17	— Port is Dry — No Sample							

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-21
 SAMPLING DATE: 11/01/22
 LOCATION: Park
 WATER LEVEL INSIDE CASING: 119.45
 ATM. PRESSURE (PSI): (Start) 14.07 (Finish) 14.11

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: SPL
 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 (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
5	1	✓	✓	✓	✓	✓	128.07	✓	117.17	✓	117.17	✓	128.07	161.9	1372	6.98	2	7.08 7.08	142	0825	MW-21-5	
4	1	✓	✓	✓	✓	✓	101.03	✓	90.34	✓	90.34	✓	101.03	161.7	991	6.85	1	7.33	149	0850	MW-21-4	
3	1	✓	✓	✓	✓	✓	70.99	✓	60.45	✓	60.45	✓	70.99	17.1	1174	6.79	1	7.09	153	0915	MW-21-3	
	2	✓	✓	✓	✓	✓	70.90	✓	60.43	✓	60.43	✓	70.90								MS/MSD	
2	1	✓	✓	✓	✓	✓	36.45	✓	26.29	✓	26.29	✓	36.45	17.9	1330	6.83	2	7.01	148	1010	MW-21-2	
1	1	✓	✓	✓	✓	✓	14.13	✓	14.14	✓	14.14	✓	14.13	— Port is Dry			— No Sample					MW-21-2

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-22
 SAMPLING DATE(S) 10/26/22
 LOCATION: JPL Admin Bldg
 WATER LEVEL INSIDE CASING: 249.40
 ATM. PRESSURE (PSI): (Start) 17.09 (Finish) 14.12

PROBE TYPE Westbay
 SERIAL NO. FMS 2302
 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) <i>mg/L</i>	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	165.56	✓	151.63	✓	151.63	✓	165.56	17.1	1124	7.31	3	7.85	46	0820	MW-22-5
4	1	✓	✓	✓	✓	✓	112.91	✓	102.15	✓	102.15	✓	112.91	17.4	456	6.93	2	7.51	96	0900	MW-22-4
3	1	✓	✓	✓	✓	✓	78.94	✓	73.03	✓	73.03	✓	78.94	18.0	576	6.66	1	8.09	124	0920	MW-22-3
2	1	✓	✓	✓	✓	✓	52.80	✓	46.92	✓	46.92	✓	52.80	16.9	556	6.72	2	8.05	135	0945	MW-22-2
	2	✓	✓	✓	✓	✓	52.76	✓	46.91	✓	46.91	✓	52.76							0955	DUP-4-4022
1	1	✓	✓	✓	✓	✓	14.24	✓	14.22	✓	14.22	✓	14.24	— Port is Dry —			— No Sample —				

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-23
 SAMPLING DATE(S): 10/28/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 143.90
 ATM. PRESSURE (PSI): (Start) 1412 (Finish) 1415

PROBE TYPE: Westbay
 SERIAL NO.: EM52902
 PROJECT: JPL
 OPERATOR(S): T. Hwang
 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)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	188.54	✓	161.20	✓	161.20	✓	188.54	17.4	673	7.40	2	6.06	68	0805	MW-23-5
4	1	✓	✓	✓	✓	✓	146.50	✓	119.10	✓	119.10	✓	146.50	16.6	482	7.00	1	7.05	95	0840	MW-23-4
3	1	✓	✓	✓	✓	✓	91.81	✓	70.34	✓	70.34	✓	91.81	17.5	602	6.73	2	6.55	115	0915	MW-23-3
2	1	✓	✓	✓	✓	✓	63.55	✓	42.21	✓	42.21	✓	63.55	17.8	1054	6.89	2	6.99	129	0945	MW-23-2
	2	✓	✓	✓	✓	✓	63.53	✓	42.18	✓	42.18	✓	63.53							0955	MS/MSD
																				(Air)	
1	1	✓	✓	✓	✓	✓	28.40	✓	14.17	✓	14.17	✓	28.40	- Port is Dry - No Sample							

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-24
 SAMPLING DATE(S) 10/26/22
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 252.88
 ATM. PRESSURE (PSI): (Start) 17.06 (Finish) 14.09

PROBE TYPE Westbay
 SERIAL NO. EMS 2502
 PROJECT: JPL
 OPERATOR(S) J. Hoon
 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)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	199.89	✓	172.74	✓	172.74	✓	199.89	21.2	646	6.90	3	msl 7.10	121	1120	MW-24-5
4	1	✓	✓	✓	✓	✓	146.12	✓	125.11	✓	125.11	✓	146.12	21.5	246	7.12	2	6.85	28	1150	MW-24-4
3	1	✓	✓	✓	✓	✓	94.52	✓	79.56	✓	79.56	✓	94.52	20.9	573	6.74	2	6.73	84	1215	MW-24-3
2	1	✓	✓	✓	✓	✓	67.53	✓	53.10	✓	53.10	✓	67.53	19.8	628	6.82	2	7.15	110	1310	MW-24-2
	2	✓	✓	✓	✓	✓	67.45	✓	53.10	✓	53.10	✓	67.45							1320	D.P. 5-4Q22
1	1	✓	✓	✓	✓	✓	20.06	✓	14.82	✓	14.82	✓	20.06	20.1	131	7.21	1	7.89	122	1350	MW-24-1
	2	✓	✓	✓	✓	✓	25.95	✓	14.83	✓	14.83	✓	25.95								

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-25
 SAMPLING DATE(S): 10/25/22
 LOCATION: Kasadena Maint Yard
 WATER LEVEL INSIDE CASING: 249.87
 ATM. PRESSURE (PSI): (Start) 1413 (Finish) 1415

PROBE TYPE: Wetbox
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): J. Hoan
 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) mg/L	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	219.01	✓	210.56	✓	210.56	✓	219.01	22.2	594	7.16	3	5.99	62	1120	MW-25-5
4	1	✓	✓	✓	✓	✓	184.45	✓	177.13	✓	177.13	✓	184.45	21.2	824	6.89	2	6.10	90	1205	MW-25-4
3	1	✓	✓	✓	✓	✓	128.05	✓	122.52	✓	122.52	✓	128.05	21.4	713	6.85	1	6.35	110	1235	MW-25-3
2	1	✓	✓	✓	✓	✓	93.22	✓	89.20	✓	89.20	✓	93.22	21.6	781	6.85	2	7.10	118	1305	MW-25-2
	2	✓	✓	✓	✓	✓	93.20	✓	89.18	✓	89.18	✓	93.20							1315	DUP-3-4622
1	1	✓	✓	✓	✓	✓	64.80	✓	61.70	✓	61.70	✓	64.80	22.6	844	6.97	2	7.55	121	1335	MW-25-1

Comments:

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

WELL ID: MW-26
 SAMPLING DATE(S) 10/28/12
 LOCATION: School Parking Lot
 WATER LEVEL INSIDE CASING: 59.27
 ATM. PRESSURE (PSI): (Start) 14.23 (Finish) _____

PROBE TYPE Water
 SERIAL NO. EIMS 2562
 PROJECT: SPL
 OPERATOR(S) T. 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 (± 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)	ORP (mv)	Sample Time	Sample ID
2	1	✓	✓	✓	✓	✓	84.26	✓	41.96	✓	41.56	✓	84.26	20.6	962	6.95	2	7.55	87	1200	MW-26-2
1	1	✓	✓	✓	✓	✓	49.27	✓	14.31	✓	14.31	✓	49.27	- Port is Dry - No Sample -							

Comments: _____

