

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	BH14A	Project Number:	1343-005.18	Date:	Dec 3, 2016	
Station Status:	(good)	Client:	GY - AAM	Samplers:	JH - N/B	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny 10°C	
UTM Location:	Z. 8 E. 58585 N. 6914007	Waypoint:	GPS Hem ID BH14A	Recovery:	<input type="checkbox"/> Good <input type="checkbox"/> Bad <input checked="" type="checkbox"/> Ok	
Photos:	Cam. Nos. 585-587	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	3.678	Purge Start Time:	11:55	Purge End Time:	12:09	
Depth to Bottom (m):	6.439	Purge Interval Time (3) min, Vol. () L	11:57	12:00	12:03	12:06
Submerged Tubing Depth (m):	6.0	Depth to water (m)	3.910	3.956	3.979	3.968
Well Stick-up Height (m):	0.05	Temperature (°C)	2.9	3.6	3.8	4.0
Estimated Water Volume (L):	5.5	pH (pH Units)	6.73	6.68	6.68	6.69
DTB – DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB – DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB – DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2451	2476	2513	2547	
	Specific Cond. (µs/cm)	4257	4202	4219	4246	
	Redox (mV)	112.1	115.7	117.6	117.8	
	DO (mg/L)	0.97	0.79	0.81	0.61	
	DO (%)	6.5	6.1	6.4	4.6	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	—	—	—	2.21	
	Interval Purge Volume (L):	.15	.12	.25	.25	
	Cumulative Purge Volume (L):	.15	.35	.60	.85	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	12:08	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	12:10					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): BH14A
 Sample Date (Con't): June 3, 2016
 Sample Time (Con't): 12:10

General Notes (Condition of well, or other features):

Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 ml	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	BH4B	Project Number:	1343-005.18	Date:	June 3, 2016		
Station Status:	Good	Client:	GY - AAM	Samplers:	SH + NB		
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny 10°C		
UTM Location:	Z. 8 E. 585585 N. 6914007	Waypoint:	GPS ID BH4B	Recovery:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. Nos. 582-584	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name <u> </u>	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name <u> </u>		X				
Initial Depth to Water (m):	4.285	Purge Start Time:	11:29	Purge End Time:	11:44		
Depth to Bottom (m):	10.119	Purge Interval Time (min), Vol. (L)	11:31	11:34	11:37	11:40	11:43
Submerged Tubing Depth (m):	9.3	Depth to water (m)	4.437	4.577	4.696	4.780	4.938
Well Stick-up Height (m):	0.64	Temperature (°C)	3.7	4.4	4.4	4.3	4.7
Estimated Water Volume (L):	11.8	pH (pH Units)	6.82	6.76	6.81	6.77	6.80
DTB - DTW x (πr ² × 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB - DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB - DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2280	2346	2349	2340	2355	← spike caused by air breaking through clouds + heating the flow-through cell
	Specific Cond. (µs/cm)	3848	3868	3874	3869	3844	
	Redox (mV)	105.4	106.7	105.6	101.4	102.7	
	DO (mg/L)	1.48	0.32	0.28	0.28	0.26	
	DO (%)	11.1	2.4	2.1	2.2	2.7	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	-	11.8	
	Interval Purge Volume (L):	0.2	0.3	0.15	0.2	0.25	
	Cumulative Purge Volume (L):	0.2	0.5	0.65	0.85	1.10	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	11:44	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	11:45						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): BH14B
 Sample Date (Con't): June 3
 Sample Time (Con't): 11:45

General Notes (Condition of well, or other features):

Good Condition

Additional Purge Data:

Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH14-107-MW007A	Project Number:	1343-005.18	Date:	Jun. 1 / 2016						
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN, MM						
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy ~15°C						
UTM Location:	Z. 8 E. 584485 N. 6913098	Waypoint:	GPS 625 ID site ID	Recovery:	<input type="checkbox"/> Good <input type="checkbox"/> Bad <input checked="" type="checkbox"/> Ok						
Photos:	Cam. <u>ELR</u> Nos. <u>018-022</u>	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Watterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X								
Initial Depth to Water (m):	3.617	Purge Start Time:	11:52	Purge End Time:	12:26						
Depth to Bottom (m):	5.755	Purge Interval Time (5) min, Vol. () L	11:53	11:57	12:03	12:07	12:11	12:16	12:21	12:26	12:31
Submerged Tubing Depth (m):	~5	Depth to water (m)	3.728	3.798	3.813	3.819	3.827	3.824	3.837	3.834	
Well Stick-up Height (m):	~50.890	Temperature (°C)	5.0	3.6	4.3	4.8	4.5	4.2	5.0	5.8	
Estimated Water Volume (L):	4.276	pH (pH Units)	5.95	5.99	5.98	5.90	5.98	5.93	5.96	5.93	
DTB - DTW x (m ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2771	2674	2715	2757	2746	2721	2784	2820		
	Specific Cond. (µs/cm)	4564	4521	4490	4492	4516	4516	4245b	4455		
	Redox (mV)	65.6	76.4	81.6	82.2	78.4	79.6	83.2	83.7		
	DO (mg/L)	1.03	0.32	0.28	0.26	0.26	0.27	0.27	0.26		
	DO (%)	7.5	2.4	2.0	2.1	2.1	2.1	2.1	2.2		
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Brown tinge	same	same	clearer	Brown tinge	same	same	same		
	Turbidity (NTU):	/	/	/	/	/	/	/	6.82		
	Interval Purge Volume (L):	/	0.70	0.55	0.40	0.45	0.45	0.50	6.5		
Cumulative Purge Volume (L):	/	0.70	1.25	1.65	2.10	2.55	3.05	3.55			
YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:									
Time logged on YSI (24hr):	12:26	Watterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X								
Sample Time	12:30										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CH14-107-MW007A
 Sample Date (Con't): Jun. 1/2016
 Sample Time (Con't): 12:30

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Transducer found in well.
 Did not remove during sampling process.
 -Temp did not stabilize, all other parameters stable.

Consumables:

- 1/4" HDPE (Peristaltic) 7 m
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 6"
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH14-107-MW007B	Project Number:	1343-005.18	Date:	1-Jun-16						
Station Status:	Good	Client:	GY - AAM	Samplers:	ANIMM						
Piezometer Diameter:	4"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	sunny to cloudy periods						
UTM Location:	Z. 8 E. 584404 N. 6913099	Waypoint:	GPS 625 ID site ID	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok						
Photos:	Cam. ELR Nos. 018-022	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X								
Initial Depth to Water (m):	4.027	Purge Start Time:	12:44	Purge End Time:							
Depth to Bottom (m):	9.690	Purge Interval Time (S) min, Vol. (L)	12:46	12:51	12:56	13:01	13:06	13:11	13:16		
Submerged Tubing Depth (m):	~8.6	Depth to water (m)	4.040	4.04	4.04	4.040	4.040	4.04	4.040		
Well Stick-up Height (m):	0.65	Temperature (°C)	7.5	3.5	3.3	3.1	3.1	2.8	3.1		
Estimated Water Volume (L):	~45.3	pH (pH Units)	6.32	6.04	5.97	5.96	5.93	5.92	5.91		
DTB - DTW x (πr ² 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1109	982	963	967	1016	1026	1040			
	Specific Cond. (µs/cm)	1745	1667	1646	1665	1748	1784	1786			
	Redox (mV)	6.60	3.2	15.5	23.5	29.5	31.6	32.4			
	DO (mg/L)	0.63	0.24	0.22	0.22	0.27	0.2	0.37			
	DO (%)	4.60	1.8	1.6	1.8	2.1	2.32	2.80			
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear, sulphur, iron	same	same	same	see clear, no odour	same	same			
	Turbidity (NTU):	/	/	/	/	/	/	1.22			
	Interval Purge Volume (L):	/	1.0	1.6	1.6	1.35	1.0	1.25			
	Cumulative Purge Volume (L):	/	1.0	2.6	4.20	5.55	6.55	7.80			
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	13:16	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit										
Sample Time	13:20										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CH14-107-MW007B

 Sample Date (Con't): Jun. 1 / 2016

 Sample Time (Con't): 13:00

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Sealed w/ J-Plug.
 Transducer found in well. did not remove during sampling process.
 - Temp was bouncing around between 2.8-3.1°C; all our parameters stable therefore sampling occurred.

Consumables:

- 1/4" HDPE (Peristaltic) 10 m #
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 6" #
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml			1,000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH14-107-MW009	Project Number:	1343-005.18	Date:	Jan. 1 / 2016.		
Station Status:	GOOD.	Client:	GY - AAM	Samplers:	AN, MM.		
Piezometer Diameter:	4"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Cloudy ~12°C.		
UTM Location:	Z. B. E. 584502 N. 6913096	Waypoint:	GPS 625 ID CH14-107...	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. ER Nos. 0012-14	Purge Method:					
Duplicate Collected:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name DUPZ	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name		X				
Initial Depth to Water (m):	4.296	Purge Start Time:	10:06		Purge End Time:	10:27	
Depth to Bottom (m):	12.021	Purge Interval Time (5) min, Vol. () L	10:07	10:12	10:17	10:22	10:27
Submerged Tubing Depth (m):	~11.0	Depth to water (m)	4.301	4.310	4.310	4.3	—
Well Stick-up Height (m):	1.05	Temperature (°C)	4.1	3.5	3.3	3.4	3.4
Estimated Water Volume (L):	62.57	pH (pH Units)	5.85	5.84	5.84	5.82	5.86
<p>DTB - DTW) x (πr²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume</p> <p>Calculations:</p>	Cond. (µs/cm)	1080	800	797	796	793	
	Specific Cond. (µs/cm)	1381	1358	1352	1352	1352	
	Redox (mV)	126.2	200.6	177.7	161.2	164.4	
	DO (mg/L)	2.35	1.02	1.11	1.15	0.93	
	DO (%)	18.1	8.0	8.5	8.8	7.0	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear no odour.	Same	Same	Same	Same	
	Turbidity (NTU):	—	—	—	—	0.94	
	Interval Purge Volume (L):	—	0.85	0.6	0.65	1.0	
	Cumulative Purge Volume (L):	—	0.85	1.45	2.1	3.1	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	10:29	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	10:30						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CH14-107 - MWO09
 Sample Date (Con't): Jun. 1 / 2016
 Sample Time (Con't): 10:30

General Notes (Condition of well, or other features):
 Sealed w/ J-Plug.

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:
 1/4" HDPE (Peristaltic) 12 m
 3/8" HDPE (Microwaterra) _____ ft.
 5/8" HDPE (Waterra) _____ ft.
 1/4" Silicon 6"
 0.45 micron inline filters _____ each
 D-25 (2" well) foot valves _____ each
 D-16 (1" well) foot valves _____ each
 SS-10 (5/8" well) foot valves _____ each
 1" HDPE Bailer _____ each
 2" HDPE Bailer _____ each
 Other _____
 Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	2	
1 L (plastic)	General Chemistry	500 ml			2	Including DUP2.

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH14-107-MW010	Project Number:	1343-005.18	Date:	Jun. 1 / 2016		
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN, MM		
Piezometer Diameter:	4"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy ~ 15°C		
UTM Location:	Z. 8 E. 584491 N. 6913097	Waypoint:	GPS 625 ID site ID	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. <u>ELR</u> Nos. <u>15-17</u>	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Hydrolift.					
Initial Depth to Water (m):	2.735	Purge Start Time:	11:04	Purge End Time:	11:30		
Depth to Bottom (m):	32.840	Purge Interval Time (5) min, Vol. () L	11:10	11:15	11:20	11:25	11:30
Submerged Tubing Depth (m):	~31.0	Depth to water (m)	2.858	2.887	2.902	2.920	2.928
Well Stick-up Height (m):	1.025	Temperature (°C)	3.2	2.7	2.5	2.5	2.4
Estimated Water Volume (L):	243.85	pH (pH Units)	5.82	5.82	5.84	5.83	5.84
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	485.5	485.7	482.6	482.5	481.7	
	Specific Cond. (µs/cm)	830.3	844.5	846.5	846.1	847.2	
	Redox (mV)	45.8	66.2	65.5	68.2	67.9	
	DO (mg/L)	4.20	3.45	3.36	3.51	3.78	
	DO (%)	31.7	25.5	24.6	25.8	27.6	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	slight turbid grey	Sand	Sand	Sand	same	
	Turbidity (NTU):	—	—	—	—	10.78	
	Interval Purge Volume (L):	12	12	12	12	12	
	Cumulative Purge Volume (L):	12	24	36	48	60	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	11:31	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	Hydrolift					
Sample Time	11:35						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CH14-107-MW010

Sample Date (Con't): Jun. 1/2016

Sample Time (Con't): 11:35

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Sealed w J-Plug

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) 40 m
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves 1 each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	100	
1 L (plastic)	General Chemistry	500 ml	-	-	500	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH15-107-MW029	Project Number:	1343-005.18	Date:	June 3, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	4"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Cloudy 7°C	
UTM Location:	Z. 8 E. 585759 N. 691126	Waypoint:	GPS Pen ID MW029	Recovery:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad <input checked="" type="checkbox"/> Ok	
Photos:	Cam. Nos. 579-581	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	1.575	Purge Start Time:	10:51	Purge End Time:	11:09	
Depth to Bottom (m):	3.665	Purge Interval Time (Σ) min, Vol. () L	10:53	10:58	11:03	11:08
Submerged Tubing Depth (m):	3.2	Depth to water (m)	1.603	1.603	1.603	1.610
Well Stick-up Height (m):	3.2 0.85	Temperature (°C)	2.4	2.6	2.6	2.15
Estimated Water Volume (L):	16.8	pH (pH Units)	7.26	7.18	7.18	7.18
DTB – DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB – DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB – DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1070	1066	1065	1059	
	Specific Cond. (µs/cm)	1883	1864	1860	1865	
	Redox (mV)	105.8	108.5	110.7	111.4	
	DO (mg/L)	2.79	2.56	2.56	2.41	
	DO (%)	57.3	55.8	55.9	51.5	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	2.52	
	Interval Purge Volume (L):	.15	.45	.45	.45	
	Cumulative Purge Volume (L):	.15	.6	1.05	1.5	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	11:09	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	11:10					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CH15-107-MW029
 Sample Date (Con't): June 3, 2016
 Sample Time (Con't): 11:10

General Notes (Condition of well, or other features):
Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:**
- 1/4" HDPE (Peristaltic) 14 ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon 0.5 ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 mL</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1 L</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH15-107-MW030	Project Number:	1343-005.18	Date:	June 3, 2016		
Station Status:	Good	Client:	GY - AAM	Samplers:	SH + NB		
Piezometer Diameter:	4"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sun + Cloud 80C		
UTM Location:	Z. 8 E. 285826 N. 6914180	Waypoint:	GPS ID MW030	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Camera Nos. 576-578	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X				
Initial Depth to Water (m):	4.084	Purge Start Time:	10:18	Purge End Time:	10:34		
Depth to Bottom (m):	4.478	Purge Interval Time (3) min, Vol. () L	10:20	10:23	10:26	10:29	10:32
Submerged Tubing Depth (m):	4.35	Depth to water (m)	4.084	4.084	4.084	4.084	4.084
Well Stick-up Height (m):	0.88	Temperature (°C)	3.5	3.3	2.5	2.4	2.5
Estimated Water Volume (L):	3.2	pH (pH Units)	7.17	7.04	7.03	7.03	7.03
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1280	1230	1197	1190	1191	
	Specific Cond. (µs/cm)	2171	2105	2096	2090	2078	
	Redox (mV)	96.9	108.2	112.1	113.1	114.1	
	DO (mg/L)	4.24	6.66	7.78	7.92	7.76	
	DO (%)	31.9	52.5	57.6	53.4	57.5	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	turbid, light brown	turbid, light brown	less turbid, clear	clear	clear	
	Turbidity (NTU):	-	-	-	-	3.49	
	Interval Purge Volume (L):	.2	.2	.35	.35	.35	
	Cumulative Purge Volume (L):	.2	.4	.75	1.10	1.45	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	10:33	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	10:35						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CH¹⁵-107-MW030
 Sample Date (Con't): June 3, 2016
 Sample Time (Con't): 10:35

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):
 - Good Condition
 - Well needs development to remove silt from bottom.

Consumables:
 1/4" HDPE (Peristaltic) 16.5 ft.
 3/8" HDPE (Microwaterra) _____ ft.
 5/8" HDPE (Waterra) _____ ft.
 1/4" Silicon 0.5 ft.
 0.45 micron inline filters _____ each
 D-25 (2" well) foot valves _____ each
 D-16 (1" well) foot valves _____ each
 SS-10 (5/8" well) foot valves _____ each
 1" HDPE Bailer _____ each
 2" HDPE Bailer _____ each
 Other _____
 Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 ml	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH15-107-MW032	Project Number:	1343-005.18	Date:	June 3, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	4"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 8°C	
UTM Location:	Z 8 E. 585765 N. 6914251	Waypoint:	GPS ID MW032	Recovery:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad <input checked="" type="checkbox"/> Ok	
Photos:	Cam. Pen Nos. 573-575	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Baller	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	2.309	Purge Start Time:	9:41	Purge End Time:	10:02	
Depth to Bottom (m):	9.083	Purge Interval Time (S) min, Vol. (L)	9:43 9:48 9:53 9:58			
Submerged Tubing Depth (m):	8.2	Depth to water (m)	2.463 2.507 2.570 2.612			
Well Stick-up Height (m):	1.00	Temperature (°C)	3.2 3.7 3.8 3.8			
Estimated Water Volume (L):	55	pH (pH Units)	7.50 7.55 7.55 7.55			
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1502 1492 1497 1540				
	Specific Cond. (µs/cm)	2597 2596 2595 2591				
	Redox (mV)	119.7 111.5 103.9 104.9				
	DO (mg/L)	1.15 0.88 0.37 0.35				
	DO (%)	8.1 6.6 6.4 6.5				
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear clear clear clear				
	Turbidity (NTU):	- - - 1.42				
	Interval Purge Volume (L):	.25 .5 .5 .5				
	Cumulative Purge Volume (L):	.25 .75 1.25 1.65				
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	10:00	Waterra	Peristaltic	Disp. Baller	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	10:05					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CH15-107-MW03Z
 Sample Date (Con't): June 3, 2016
 Sample Time (Con't): 10:05

General Notes (Condition of well, or other features):
Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 33 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120-L</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1L</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH15-107-MW033	Project Number:	1343-005.18	Date:	June 3, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	4"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny 10°C	
UTM Location:	Z. 8 E. 585765 N. 6914250	Waypoint:	GPS ID MW033	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. # Nos. 569-571	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	2.525	Purge Start Time:	9:13	Purge End Time:	9:34	
Depth to Bottom (m):	3.894	Purge Interval Time (5) min, Vol. () L	9:20	9:25	9:29	9:34
Submerged Tubing Depth (m):	3.6	Depth to water (m)	2.543	2.543	2.543	2.543
Well Stick-up Height (m):	1.03	Temperature (°C)	3.3	3.4	3.4	3.3
Estimated Water Volume (L):	11	pH (pH Units)	6.80	6.74	6.93	6.87
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1317	1310	1276	1216	
	Specific Cond. (µs/cm)	2260	2234	2171	2074	
	Redox (mV)	116.2	119.7	124.1	124.5	
	DO (mg/L)	1.96	2.00	2.44	2.30	
	DO (%)	14.6	15.2	18.5	24.8	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	1.54	
	Interval Purge Volume (L):	.4	.5	.5	.6	
	Cumulative Purge Volume (L):	.4	.9	1.4	2.0	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	9:34	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	9:35					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CHIS-107-MON 033
 Sample Date (Con't): June 3, 2016
 Sample Time (Con't): 9:35

General Notes (Condition of well, or other features):

Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 13 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 mL</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1 L</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	CH15-107-MW034	Project Number:	1343-005.18	Date:	June 3, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	4"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny 30°C	
UTM Location:	Z. 8 E. 585756 N. 691448	Waypoint:	GPS ID MW034	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Mem Nos. 566-568	Purge Method:				
Duplicate Collected:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name Dup 5	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name FB 3		X			
Initial Depth to Water (m):	3.205	Purge Start Time:	8:26		Purge End Time:	8:45
Depth to Bottom (m):	6.109	Purge Interval Time (S) min, Vol. (L)	8:28	8:33	8:38	8:43
Submerged Tubing Depth (m):	5.6	Depth to water (m)	3.256	3.768	3.266	3.266
Well Stick-up Height (m):	0.98	Temperature (°C)	3.5	3.2	3.4	3.6
Estimated Water Volume (L):	23.52	pH (pH Units)	6.66	6.66	6.68	6.69
<p>DTB - DTW) x (πr²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume</p> <p>Calculations:</p>	Cond. (µs/cm)	618	579	570	566	Sun started shining on flow through stick-up Temp + Sp. Cond. Parameters considered stable.
	Specific Cond. (µs/cm)	1054	993	968	957	
	Redox (mV)	120.0	119.4	120.1	953	
	DO (mg/L)	6.53	6.25	6.03	6.31	
	DO (%)	48	46.7	45.4	47.6	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	turbid	turbid	turbid	turbid	
	Turbidity (NTU):	-	-	-	9.93	
	Interval Purge Volume (L):	.35	.5	.45	.5	
	Cumulative Purge Volume (L):	.35	.85	1.3	1.8	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	8:45	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	8:45					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): CH 15-107-MW034
 Sample Date (Con't): June 3, 2016
 Sample Time (Con't): 8:45

General Notes (Condition of well, or other features):

Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 775 25 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 ml</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1L</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P01-01A	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 12°C	
UTM Location:	Z. 8 E. 579697 N. 6914855	Waypoint:	GPS Hem ID P01-01A	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. #s Nos. 562-565	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Wätterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	HydroLIFT				
Initial Depth to Water (m):	3.560	Purge Start Time:	15:29	Purge End Time:	15:47	
Depth to Bottom (m):	20.312	Purge Interval Time () min, Vol. (10) L	15:34	15:38	15:42	15:47
Submerged Tubing Depth (m):	19.3	Depth to water (m)	3.566	3.586	3.592	3.592
Well Stick-up Height (m):	0.60	Temperature (°C)	3.3	2.6	2.4	2.2
Estimated Water Volume (L):	33.5	pH (pH Units)	7.02	6.91	6.95	6.98
<p>DTB - DTW) x (πr²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume</p> <p>Calculations:</p>	Cond. (µs/cm)	1134	1157	1127	1121	
	Specific Cond. (µs/cm)	1974	1986	1980	1985	
	Redox (mV)	68.7	76.3	72.4	68.4	
	DO (mg/L)	0.81	0.91	0.81	0.95	
	DO (%)	6.2	6.7	6.0	6.8	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	turbid	clear	clear	clear	
	Turbidity (NTU):	-	-	-	0.35	
	Interval Purge Volume (L):	10	10	10	10	
	Cumulative Purge Volume (L):	10	20	30	40	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	15:47	Wätterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	HydroLIFT				
Sample Time	15:48					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): 101-01A
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 15:48

General Notes (Condition of well, or other features):
 Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:**
- 1/4" HDPE (Peristaltic) _____ ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon _____ ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml			1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	101-01B	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	sun + cloud 14°C	
UTM Location:	Z. 8 E. 571697 N. 69114855	Waypoint:	GPS Pen ID 101-01A	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Pen Nos. 562-465	Purge Method:				
Duplicate Collected:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name Dp4	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name FB2	HydroLH				
Initial Depth to Water (m):	3.76	Purge Start Time:	15:56	Purge End Time:	16:12	
Depth to Bottom (m):	35.296	Purge Interval Time () min, Vol. (15) L	16:00	16:03	16:07	16:10
Submerged Tubing Depth (m):	34.2	Depth to water (m)	3.746	3.746	3.746	
Well Stick-up Height (m):	0.56	Temperature (°C)	2.6	2.4	2.4	2.6
Estimated Water Volume (L):	63	pH (pH Units)	7.31	7.36	7.35	7.34
DTB - DTW x (πr ² × 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB - DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB - DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	811	900	901	905	
	Specific Cond. (µs/cm)	1555	1583	582	1581	
	Redox (mV)	-34.0	-41.0	-42.7	-42.2	
	DO (mg/L)	1.32	1.02	1.06	0.89	
	DO (%)	9.6	7.5	7.8	6.6	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear		
	Turbidity (NTU):	-	-	-	0.24	
	Interval Purge Volume (L):	15	15	15		
	Cumulative Purge Volume (L):	15	30	45		
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	16:11	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	HydroLH				
Sample Time	16:15					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): 101-01B
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 16:15

General Notes (Condition of well, or other features):
Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:
- 1/4" HDPE (Peristaltic) _____ ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon _____ ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml			1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P01-02A	Project Number:	1343-005.18	Date:	Jun. 2 / 2016		
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN, MM		
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Overcast ~10°C		
UTM Location:	Z. 8 E. 579962 N. 6914230	Waypoint:	GPS 625 ID P01-02A	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. CLR Nos. 32-36	Purge Method:					
Duplicate Collected:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name DVP3	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name		X				
Initial Depth to Water (m):	1.924	Purge Start Time:	9:54	Purge End Time:	10:15		
Depth to Bottom (m):	14.370	Purge Interval Time (5) min, Vol. () L	9:55	10:00	10:05	10:10	10:15
Submerged Tubing Depth (m):	~12.5	Depth to water (m)	1.94	1.94	1.94	—	—
Well Stick-up Height (m):	0.61	Temperature (°C)	5.5	4.7	4.6	4.6	4.7
Estimated Water Volume (L):	~24.8	pH (pH Units)	7.49	7.48	7.48	7.48	7.48
<p>DTB - DTW) x (πr²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume</p> <p>Calculations:</p>	Cond. (µs/cm)	444.3	437.0	436.4	443.3	446.1	
	Specific Cond. (µs/cm)	712.4	714.0	714.7	727.6	729.6	
	Redox (mV)	106.0	65.7	54.4	48.3	42.8	
	DO (mg/L)	0.97	6.16	0.14	0.12	0.12	
	DO (%)	6.3	1.3	1.1	1.0	0.9	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Clear no odour	Same	Same	Same	Same	
	Turbidity (NTU):	—	—	—	—	0.70	
	Interval Purge Volume (L):	—	1.0	1.0	1.2	1.2	
	Cumulative Purge Volume (L):	—	1.0	2.0	2.2	3.4	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	10:16	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	10:20						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P61-02A
 Sample Date (Con't): Jun. 2 / 2016
 Sample Time (Con't): 10:20

General Notes (Condition of well, or other features):

Sealed with J.Plug.

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 15 m
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 6"
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

Cam: Hem Nos: 553-555



GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	Pol-02B	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	partially obstructed	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 10°C	
UTM Location:	Z. 8 E. 579962 N. 6914230	Waypoint:	GPS 625 ID Pol-02A	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam: 1 Nos: 1	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	0.255	Purge Start Time:	13:19	Purge End Time:	13:31	
Depth to Bottom (m):	29.851	Purge Interval Time (min, Vol. (L))	13:21	13:24	13:27	13:30
Submerged Tubing Depth (m):	29.0	Depth to water (m)	0.910	0.900	0.900	0.900
Well Stick-up Height (m):	1.60	Temperature (°C)	8.3	8.4	8.5	8.5
Estimated Water Volume (L):	59	pH (pH Units)	7.72	7.68	7.67	7.67
DTB - DTW x (πr ² × 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB - DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB - DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	405.6	398.5	394.5	314.2	
	Specific Cond. (µs/cm)	591.8	592.7	576.9	575.0	
	Redox (mV)	-108	-114.2	-112.2	-118.2	
	DO (mg/L)	0.94	0.31	0.21	0.22	
	DO (%)	24	2.7	1.9	1.9	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	turbid clear	turbid clear	turbid clear	turbid clear	
	Turbidity (NTU):	-	-	-	-	3.83
	Interval Purge Volume (L):	.3	.35	.3	.3	
	Cumulative Purge Volume (L):	.3	.65	.95	1.25	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	13:31	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	13:32					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P01-02 B
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 13:32

General Notes (Condition of well, or other features):
 Obstruction in well at 1.7m stop.
 Likely a rock, still able to slide
 by fishing past it.

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:**
- 1/4" HDPE (Peristaltic) _____ ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon _____ ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	Pol-03	Project Number:	1343-005.18	Date:	June 2, 2016		
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB		
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	light rain 10°C		
UTM Location:	208 E. 0580521 N. 6914760	Waypoint:	GPS ID Pol-03	Recovery:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Camera Nos. 339-541	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X				
Initial Depth to Water (m):	1.763	Purge Start Time:	9:41	Purge End Time:	10:05		
Depth to Bottom (m):	9.41	Purge Interval Time (S) min, Vol. (L)	9:43 9:48 9:53 9:58 10:05				
Submerged Tubing Depth (m):	9.0	Depth to water (m)	1.963 2.316 2.637 2.935 3.050				
Well Stick-up Height (m):	0.40	Temperature (°C)	4.0 3.8 4.2 4.5 4.3				
Estimated Water Volume (L):	15.8	pH (pH Units)	6.12 6.12 6.13 6.13 6.14				
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2457 2438 2451 2460 2438					
	Specific Cond. (µs/cm)	4103 4046 4070 4039 4055					
	Redox (mV)	-28.3 -29.1 -29.2 -31.1 -31.8					
	DO (mg/L)	0.61 0.23 0.21 0.17 0.19					
	DO (%)	4.6 1.9 1.6 1.3 1.6					
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear clear clear clear clear					
	Turbidity (NTU):	- - - - 28.6					
	Interval Purge Volume (L):	0.3 0.45 0.6 0.4 0.45					
	Cumulative Purge Volume (L):	0.5 0.75 1.35 1.75 2.2					
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	10:05	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	10:06						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): 101-03
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 10:06

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):
 - Slow recharge
~~XXXXXXXXXXXXXXXXXXXX~~

Consumables:
 1/4" HDPE (Peristaltic) 2 ft.
 3/8" HDPE (Microwaterra) _____ ft.
 5/8" HDPE (Waterra) _____ ft.
 1/4" Silicon 0.5 ft.
 0.45 micron inline filters _____ each
 D-25 (2" well) foot valves _____ each
 D-16 (1" well) foot valves _____ each
 SS-10 (5/8" well) foot valves _____ each
 1" HDPE Bailer _____ each
 2" HDPE Bailer _____ each
 Other ~~XXXXXXXXXXXXXXXXXXXX~~
 Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1 L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	Pol-04A	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Cloudy 10°C	
UTM Location:	Z08 E. 0580376 N. 6914073	Waypoint:	GPS ID Pol-04A6	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Mem Nos. 548-560	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	HydroLift				
Initial Depth to Water (m):	0.190	Purge Start Time:	11:32	Purge End Time:	11:54	
Depth to Bottom (m):	53.134	Purge Interval Time () min, Vol. (L)	11:36	11:44	11:48	11:53
Submerged Tubing Depth (m):	52.5	Depth to water (m)	0.36	0.40	0.42	0.42
Well Stick-up Height (m):	0.20	Temperature (°C)	3.4	3.5	3.4	3.5
Estimated Water Volume (L):	106	pH (pH Units)	6.62	6.68	6.66	6.64
<p>DTB - DTW) x (πr²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume</p> <p>Calculations:</p>	Cond. (µs/cm)	725	721	717	716	
	Specific Cond. (µs/cm)	1236	1222	1219	1214	
	Redox (mV)	-29.7	-27.2	-25.6	-23.3	
	DO (mg/L)	0.71	1.62	1.20	0.54	
	DO (%)	95.3	12.1	9.0	5.0	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	turbid sulphur odour	turbid sulphur odour	turbid sulphur odour	turbid sulphur odour	
	Turbidity (NTU):	-	-	-	2.42	
	Interval Purge Volume (L):	15	15	15	15	
	Cumulative Purge Volume (L):	15	30	45	60	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	11:53	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	HydroLift				
Sample Time	11:55					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P01-01A
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 11:55

General Notes (Condition of well, or other features):

Good condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P01-04B	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 10°C	
UTM Location:	Z08 E. 0520376 N. 6914073	Waypoint:	GPS Item ID P01-04B	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Nos. 551-553	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	HydroLIF				
Initial Depth to Water (m):	0.808	Purge Start Time:	12:01	Purge End Time:	12:15	
Depth to Bottom (m):	19.027	Purge Interval Time () min, Vol. (10) L	12:04	12:07	12:11	12:15
Submerged Tubing Depth (m):	18.2	Depth to water (m)	0.818	0.819	0.818	0.818
Well Stick-up Height (m):	0.18	Temperature (°C)	3.1	3.2	3.2	3.3
Estimated Water Volume (L):	36.5	pH (pH Units)	6.75	6.73	6.74	6.74
DTB - DTW x (πr ² 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1726	1744	1716	1717	
	Specific Cond. (µs/cm)	2971	3072	3079	3070	
	Redox (mV)	-555	-55.0	-553	-525	
	DO (mg/L)	4.23	0.88	0.94	0.84	
	DO (%)	59.6	6.7	7.2	6.2	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	0.25	
	Interval Purge Volume (L):	10	10	10	10	
	Cumulative Purge Volume (L):	10	20	30	40	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	12:15	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	HydroLIF				
Sample Time	12:16					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P01-04B
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 12:16

General Notes (Condition of well, or other features):

Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 ~ L	
1 L (plastic)	General Chemistry	500 ml	-	-	1 L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	PO1-11	Project Number:	1343-005.18	Date:	Jun 2 / 2016		
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN mm		
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Overcast/light rain ~ 12°C		
UTM Location:	Z. 8 E. 586094 N. 6914488	Waypoint:	GPS 625 ID PO1-11	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. ELR Nos. 43-45	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X				
Initial Depth to Water (m):	0.965	Purge Start Time:	12:32			Purge End Time:	12:53
Depth to Bottom (m):	11.010	Purge Interval Time (5) min, Vol. () L	12:33	12:38	12:43	12:48	12:53
Submerged Tubing Depth (m):	~ 10.0	Depth to water (m)	0.97	0.97	—	—	—
Well Stick-up Height (m):	1.39	Temperature (°C)	6.6	5.6	5.5	5.4	5.3
Estimated Water Volume (L):	~ 20.09	pH (pH Units)	6.58	6.39	6.40	6.39	6.41
DTB - DTW) x (πr ²) 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2457	2461	2451	2448	2439	
	Specific Cond. (µs/cm)	3857	3907	3911	3916	3915	
	Redox (mV)	-27.3	-35.4	-39.4	-42.1	-43.8	
	DO (mg/L)	1.11	0.30	0.23	0.20	0.13	
	DO (%)	8.6	2.4	1.8	1.6	1.5	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	light brown / clear	same	same	same	
	Turbidity (NTU):	—	—	—	—	7.28	
	Interval Purge Volume (L):	—	1.0	1.0	1.3	1.3	
	Cumulative Purge Volume (L):	—	1.0	2.0	3.3	4.6	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	12:54	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	13:05						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): Pol-11
 Sample Date (Con't): Jun. 2 / 2016
 Sample Time (Con't): 13:05

General Notes (Condition of well, or other features):

Sealed with PVC cap.

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 5 m
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 6"
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	Pos-01-02	Project Number:	1343-005.18	Date:	02-26-16		
Station Status:	600D	Client:	GY - AAM	Samplers:	AN, mm		
Piezometer Diameter:	1/2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny ~18°C		
UTM Location:	Z. 8 E. 580054 N. 6914508	Waypoint:	GPS 625 ID Pos-01	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. LR Nos. 46-49	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X				
Initial Depth to Water (m):	0.293	Purge Start Time:	14:06		Purge End Time:	14:27	
Depth to Bottom (m):	20.769	Purge Interval Time (5) min, Vol. () L	14:07	14:12	14:17	14:22	14:27
Submerged Tubing Depth (m):	~20-0	Depth to water (m)	—	—	—	—	—
Well Stick-up Height (m):	0.48	Temperature (°C)	5.7	5.3	5.1	5.0	5.0
Estimated Water Volume (L):	~2.5	pH (pH Units)	6.34	6.25	6.25	6.24	6.23
DTB – DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB – DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB – DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2243	2365	2364	2359	2358	
	Specific Cond. (µs/cm)	3580	3800	3806	3813	3808	
	Redox (mV)	-13.6	-0.1	0.2	-0.6	-1.2	
	DO (mg/L)	2.22	0.26	0.19	0.18	0.17	
	DO (%)	16.8	2.1	1.6	1.4	1.4	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear.	clear	same	same	same	
	Turbidity (NTU):	—	—	—	—	2.03	
	Interval Purge Volume (L):	—	1.6	1.3	1.0	1.35	
	Cumulative Purge Volume (L):	—	1.6	2.9	3.9	5.25	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	14:27	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	14:30						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): POS-01-02
 Sample Date (Con't): Jun. 2 / 2016
 Sample Time (Con't): 14:30

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Could not measure draw down due to well diameter.

Consumables:

- 1/4" HDPE (Peristaltic) 0.5 m
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 6"
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P05-01-04	Project Number:	1343-005.18	Date:	Jun. 2/2016		
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN, nm		
Piezometer Diameter:	1/2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Overcast / light wind ~ 15°C		
UTM Location:	Z. 8 E. 580054 N. 6914508	Waypoint:	GPS 625 ID P05-01	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. ELR Nos. 46-49	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	X					
Initial Depth to Water (m):	1.969	Purge Start Time:	13:33			Purge End Time:	13:54
Depth to Bottom (m):	12.293	Purge Interval Time (5) min, Vol. () L	13:34	13:39	13:44	13:49	13:54
Submerged Tubing Depth (m):	~ 11.0	Depth to water (m)	—	—	—	—	—
Well Stick-up Height (m):	6.53	Temperature (°C)	6.4	5.5	5.7	5.8	5.7
Estimated Water Volume (L):	~ 1.29	pH (pH Units)	6.39	6.26	6.25	6.24	6.24
DTB - DTW x (πr ²) 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2212	2378	2429	2449	2438	
	Specific Cond. (µs/cm)	3454	3779	3854	3878	3859	
	Redox (mV)	-14.6	-13.2	-10.9	-11.3	-11.9	
	DO (mg/L)	1.70	0.37	0.25	0.20	0.18	
	DO (%)	13.2	2.9	2.0	1.6	1.4	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	slight turbid grey.	same	clear.	clear.	same	
	Turbidity (NTU):	—	—	—	—	8.99	
	Interval Purge Volume (L):	—	1.0	0.7	0.75	0.8	
	Cumulative Purge Volume (L):	—	1.0	1.7	2.45	3.25	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	13:55	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	X					
Sample Time	13:55						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P05-01-04
 Sample Date (Con't): Jun. 2 / 2016
 Sample Time (Con't): 13:55

General Notes (Condition of well, or other features):
 Could not measure draw down due to well diameter.

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:
 1/4" HDPE (Peristaltic) 12.5 m
 3/8" HDPE (Microwaterra) _____ ft.
 5/8" HDPE (Waterra) _____ ft.
 1/4" Silicon 6"
 0.45 micron inline filters _____ each
 D-25 (2" well) foot valves _____ each
 D-16 (1" well) foot valves _____ each
 SS-10 (5/8" well) foot valves _____ each
 1" HDPE Bailer _____ each
 2" HDPE Bailer _____ each
 Other _____
 Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P05-02	Project Number:	1343-005.18	Date:	Jun. 2/2016						
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN, mm						
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Overcast ~15°C						
UTM Location:	Z08 E. 0580035 N. 691441	Waypoint:	GPS ELRID P05-02	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok						
Photos:	Cam. 1 Nos. 40-42	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X								
Initial Depth to Water (m):	2.614	Purge Start Time:	11:37	Purge End Time:	12:03						
Depth to Bottom (m):	5.879	Purge Interval Time (5) min, Vol. () L	11:38	11:43	11:48	11:53	11:58	12:03			
Submerged Tubing Depth (m):	~5	Depth to water (m)	2.610	2.610	2.610	2.610	2.610	2.610			
Well Stick-up Height (m):	1.895	Temperature (°C)	5.9	5.1	5.0	4.9	4.9	4.8			
Estimated Water Volume (L):	6.53	pH (pH Units)	6.25	6.23	6.20	6.22	6.22	6.22			
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2311	2285	2275	2271	2272	2265				
	Specific Cond. (µs/cm)	3653	3682	3683	3678	3686	3690				
	Redox (mV)	11.7	10.4	7.6	5.3	4.4	3.5				
	DO (mg/L)	0.91	0.21	0.60	0.43	0.34	0.32				
	DO (%)	5.9	1.7	4.8	3.4	2.7	2.5				
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Clear	same	same	same	same	same				
	Turbidity (NTU):	/	/	/	/	/	0.68				
	Interval Purge Volume (L):	/	0.85	0.85	0.85	1.0	0.7				
	Cumulative Purge Volume (L):	/	0.85	1.70	2.55	3.55	4.25				
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	12:04	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X								
Sample Time	12:05										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P05-02

Sample Date (Con't): 2-Jun-16

Sample Time (Con't): 12:05

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

cap on well, ~~etc~~

Consumables:

- 1/4" HDPE (Peristaltic) 6 m
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	PG5-03	Project Number:	1343-005.18	Date:	2 - Jun - 16		
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN/MM		
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	slight breeze, cloudy		
UTM Location:	Z. 8 E. 579977 N. 6914348	Waypoint:	GPS 625 ID PG5-03	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. ELR Nos. 37-39	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X				
Initial Depth to Water (m):	4.378	Purge Start Time:	10:50			Purge End Time:	11:11
Depth to Bottom (m):	7.986	Purge Interval Time (S) min, Vol. () L	10:51	10:56	11:01	11:06	11:11
Submerged Tubing Depth (m):	~6	Depth to water (m)	4.381	4.381	4.381	—	—
Well Stick-up Height (m):	0.82	Temperature (°C)	4.6	4.0	4.0	3.9	3.9
Estimated Water Volume (L):	7.2	pH (pH Units)	6.81	6.74	6.68	6.72	6.72
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations: $\frac{7.986 - 4.378}{3.608} \times 2 = 7.216$	Cond. (µs/cm)	1334	1338	1339	1337	1338	
	Specific Cond. (µs/cm)	2200	2232	2236	2237	2240	
	Redox (mV)	-16.7	-25.7	-29.2	-29.4	-30.0	
	DO (mg/L)	0.49	0.16	0.14	0.12	0.12	
	DO (%)	3.5	1.3	1.0	0.9	0.9	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Clear	Sandy	Sandy	Sandy	Sandy	
	Turbidity (NTU):	—	—	—	—	1.62	
	Interval Purge Volume (L):	—	1.0	1.0	1.0	1.0	
	Cumulative Purge Volume (L):	—	1.0	2.0	3.0	4.0	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	11:12	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	11:15						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): POS-03
 Sample Date (Con't): Jun. 2 / 2016
 Sample Time (Con't): 11:15

General Notes (Condition of well, or other features):

Consumables:

- 1/4" HDPE (Peristaltic) 8 m
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 6"
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other D-Plug
- Other _____

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	500	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	PO9-ETA-2	Project Number:	1343-005.18	Date:	Jun. 3/2016				
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AM, MM				
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Overcast ~15°C				
UTM Location:	Z. 8 E. 582704 N. 6913800	Waypoint:	GPS 625 ID PO9ETA2	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok				
Photos:	Cam. CLR Nos. 63-65	Purge Method:							
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other			
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	HydroLift							
Initial Depth to Water (m):	11.115	Purge Start Time:	14:33	Purge End Time:	15:08				
Depth to Bottom (m):	18.535	Purge Interval Time () min, Vol. () L	14:33	14:38	14:43	14:53	14:58	15:03	15:08
Submerged Tubing Depth (m):	~16	Depth to water (m)	/	/	11.134	/	/	/	/
Well Stick-up Height (m):	0.715	Temperature (°C)	4.8	3.4	3.2	4.4	3.4	3.7	3.6
Estimated Water Volume (L):	14.8	pH (pH Units)	6.62	6.34	6.34	6.34	6.23	6.23	6.20
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations: $\frac{18.535 - 11.115}{0.7420} \times 2 = 14.840$	Cond. (µs/cm)	3728	3752	3788	3922	3832	3824	3879	
	Specific Cond. (µs/cm)	6102	6394	6469	6461	6506	6470	6407	
	Redox (mV)	-45.4	-32.0	-26.7	-30.3	-20.0	-19.3	-19.2	
	DO (mg/L)	5.32	3.74	1.37	3.76	2.34	1.93	1.85	
	DO (%)	40.0	26.9	10.3	29.1	18.0	14.6	14.6	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Slightly turbid	same	clear	same	same	same	same	
	Turbidity (NTU):	/	/	/	/	/	/	2.96	
	Interval Purge Volume (L):	/	5	4	4	4	4	4	
	Cumulative Purge Volume (L):	/	5	9	13	17	21	25	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:						
Time logged on YSI (24hr):	15:11	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other			
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	HydroLift							
Sample Time	15:15								

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): PO9-ETA-2

Sample Date (Con't): 3-Jun-16

Sample Time (Con't): 15:15

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

~~Testing~~

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1,000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P2001-2A	Project Number:	1343-005.18	Date:	3-Jun-16						
Station Status:	Good	Client:	GY - AAM	Samplers:	AN/MM						
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny ~7°C						
UTM Location:	ZONE: 0593133 N. 6902867	Waypoint:	GPS ID P2001-2A3	Recovery:	<input type="checkbox"/> Good <input type="checkbox"/> Bad <input checked="" type="checkbox"/> Ok						
Photos:	Cam. 1 Nos. 54-56	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Hydrodiff.									
Initial Depth to Water (m):	3.984	Purge Start Time:	9:13	Purge End Time:	10:03						
Depth to Bottom (m):	27.528	Purge Interval Time (5) min, Vol. () L	9:18	9:23	9:28	9:33	9:43	9:48	9:53	9:58	10:03
Submerged Tubing Depth (m):	~24	Depth to water (m)	/	/	/	9.70	/	/	/	/	/
Well Stick-up Height (m):	0.38	Temperature (°C)	4.0	4.2	4.43	3.5	4.9	4.4	4.7	4.6	4.6
Estimated Water Volume (L):	47.088	pH (pH Units)	6.77	6.76	6.78	6.75	6.66	6.68	6.68	6.68	6.70
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations: $\frac{27.528 \times 2}{2} \times 2 = 47.088$	Cond. (µs/cm)	1328	2328	2342	1629	2376	2338	2354	2339	2303	
	Specific Cond. (µs/cm)	2219	3365	3866	2709	3857	3857	3849	3820	3769	
	Redox (mV)	8.3	1.7	1.6	3.2	6.8	5.8	7.4	3.1	-3.1	
	DO (mg/L)	2.88	3.08	2.50	2.23	3.34	5.23	6.56	2.37	2.17	
	DO (%)	22.3	23.4	21.5	17.1	24.4	39.5	19.5	18.3	16.8	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	slight turbid	same	same	same	same	same	same	clear	clear	
	Turbidity (NTU):	/	/	/	/	/	/	/	/	9.93	
	Interval Purge Volume (L):	5	5	4	4	2	2	2	2	2	
	Cumulative Purge Volume (L):	5	10	14	18	20	22	24	26	28	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	10:05	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	Hydrodiff.									
Sample Time	10:05										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P2001 - 2A

Sample Date (Con't): 3-June-16

Sample Time (Con't): 10:05

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

- Drawdown not monitored due to friction from tubing (possibly wedging water level) + low stick-up height (pinching fingers)
 - Pumping rate skewed down @ 0.33 due to draw down, attempt stable parameters.

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1,000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P2001-28	Project Number:	1343-005.18	Date:	3-June-16					
Station Status:	SLOW RECHARGE	Client:	GY - AAM	Samplers:	3-June-16 AN/ML					
Piezometer Diameter:	9"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny ~ 7°					
UTM Location:	Zone E. 0593133 N. 6902867	Waypoint:	GPS FLR ID P2001-28	Recovery:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/> Ok					
Photos:	Cam. 1 Nos. 54-56	Purge Method:								
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X							
Initial Depth to Water (m):	4.193	Purge Start Time:	8:39	Purge End Time:	9:05					
Depth to Bottom (m):	6.384	Purge Interval Time (5) min, Vol. () L	8:41	8:46	8:51	8:56	9:01	9:05		13:35
Submerged Tubing Depth (m):	nt	Depth to water (m)	4.449	4.605	4.70	5.080	5.580	/		4.25
Well Stick-up Height (m):	0.60	Temperature (°C)	4.0	4.4	5.0	3.1	3.0	3.3		6.7
Estimated Water Volume (L):	4.4	pH (pH Units)	6.61	6.60	6.64	6.65	6.75	6.73		6.67
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations: $\frac{6.384 - 4.193}{2.191} \times 2 = 4.382$	Cond. (µs/cm)	2002	2035	2068	2162	2037	1999		2578	
	Specific Cond. (µs/cm)	3738	3683	3684	3725	3424	3414		3958	
	Redox (mV)	-19.6	-20.3	-11.1	-25.0	-20.7	-24.8		7.9	
	DO (mg/L)	1.02	0.55	0.45	0.65	3.04	3.42		1.42	
	DO (%)	13.1	4.3	3.6	4.9	39.233	25.8		12.1	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	grey turbid	same	same	same	same	same		slight turb. grey	
	Turbidity (NTU):	/	/	/	/	/	/		45.6	
	Interval Purge Volume (L):	/	0.65	0.35	1.0	1.0	1.2		-	
	Cumulative Purge Volume (L):	/	0.65	1.0	2.0	3.0	4.2		-	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:							
Time logged on YSI (24hr):	13:35	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X							
Sample Time	13:25									

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P2001-2B

Sample Date (Con't): Jun. 3/2016

Sample Time (Con't): 13:25

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Grey sediment found on the tip of well meter after measuring DTB.
 - speed increased @ 8:51 due to slow recharge; will purge dry & return to sample later.
 - Purge dry @ 9:05
 * sampled @ 13:25 following recharge. Sample water grey/turbid @ start, clearing by end of sample

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1500	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P96-7	Project Number:	1343-005.18	Date:	June 1, 2016		
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB		
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sun + Cloud 15°C		
UTM Location:	Z08 E.0584122 N.6913288	Waypoint:	GPS ID P96-7*	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. Mem Nos. 533-535	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X				
Initial Depth to Water (m):	5.936	Purge Start Time:	15:39	Purge End Time:			
Depth to Bottom (m):	9.868	Purge Interval Time (3) min, Vol. () L	15:44	15:47	15:50	15:53	15:56
Submerged Tubing Depth (m):	9.0	Depth to water (m)	5.974	5.989	5.992	5.994	5.996
Well Stick-up Height (m):	0.85	Temperature (°C)	3.6	3.6	4.2	3.8	3.9
Estimated Water Volume (L):	2.9	pH (pH Units)	7.21	7.14	7.21	7.22	7.28
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1907	1863	1848	1815	1808	
	Specific Cond. (µs/cm)	3233	3157	3068	3054	3022	
	Redox (mV)	58.7	42.4	90.3	96.0	99.8	
	DO (mg/L)	0	0	0	0	0	
	DO (%)	0	0	0	0	0	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	-	1.72	
	Interval Purge Volume (L):	0.2	0.25	0.3	0.3	0.3	
	Cumulative Purge Volume (L):	0.2	0.45	0.75	1.05	1.35	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	15:59	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	16:00						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

19' 7.4"

Sample Site (Con't): P96-7
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): 16:00

General Notes (Condition of well, or other features):

- Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1 L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P016-8A	Project Number:	1343-005.18	Date:	June 3, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + N/S	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny 12°C	
UTM Location:	Z. 8 E. 583222 N. 6914672	Waypoint:	GPS ID P016-8A6	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Camera Nos. 598-590	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	2.474	Purge Start Time:	13:24	Purge End Time:	13:45	
Depth to Bottom (m):	4.876	Purge Interval Time (3) min, Vol. () L	13:36	13:39	13:42	13:45
Submerged Tubing Depth (m):	4.3	Depth to water (m)	2.484	2.484	2.484	2.484
Well Stick-up Height (m):	0.79	Temperature (°C)	7.9	7.9	7.8	7.6
Estimated Water Volume (L):	4.8	pH (pH Units)	3.46	3.37	3.34	3.33
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	6184	6114	6614	6673	
	Specific Cond. (µs/cm)	9182	9100	9072	9109	
	Redox (mV)	345.0	345.6	347.4	348.9	
	DO (mg/L)	0.46	0.31	0.23	0.22	
	DO (%)	4.1	2.7	2.0	1.9	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	0.24	
	Interval Purge Volume (L):	4	3	3	3.5	
	Cumulative Purge Volume (L):	1	4	7	1.5	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	13:45	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	13:46					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P96-8A
 Sample Date (Con't): June 3, 2016
 Sample Time (Con't): 13:46

General Notes (Condition of well, or other features):
good condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 mL</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1L</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	196-8B	Project Number:	1343-005.18	Date:	July 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JA + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny 12°C	
UTM Location:	Z. 8 E. 583222 N. 6914072	Waypoint:	GPS ID 196-8AB	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Camera Nos. 591-593	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	2.360	Purge Start Time:	13:54	Purge End Time:	14:08	
Depth to Bottom (m):	9.083	Purge Interval Time (min, Vol. (L))	13:57	14:00	14:05	14:06
Submerged Tubing Depth (m):	8.2	Depth to water (m)	2.367	2.364	2.364	2.364
Well Stick-up Height (m):	0.7	Temperature (°C)	7.5	7.8	7.6	7.6
Estimated Water Volume (L):	13.4	pH (pH Units)	4.77	4.88	4.87	4.91
DTB - DTW x (πr ²) 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	6128	6185	6153	6147	
	Specific Cond. (µs/cm)	9205	9167	9204	9203	
	Redox (mV)	201.0	174.5	167.9	162.6	
	DO (mg/L)	0.69	0.24	0.20	0.18	
	DO (%)	5.9	2.1	1.6	1.6	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	0.40	
	Interval Purge Volume (L):	1.5	.2	.2	.2	
	Cumulative Purge Volume (L):	1.5	.35	.55	.75	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	14:07.6	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	14:10					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P96-8B
 Sample Date (Con't): June 3, 2015
 Sample Time (Con't): 14:10

General Notes (Condition of well, or other features):
Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:
- 1/4" HDPE (Peristaltic) 2 ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon 0.5 ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	P96-9A	Project Number:	1343-005.18	Date:	Jun 3/2016						
Station Status:	600D	Client:	GY - AAM	Samplers:	AN, MM						
Piezometer Diameter:	1.5"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Overcast ~15°C						
UTM Location:	Z. 8 E. 592647 N. 6903347	Waypoint:	GPS 625 ID P96-9A	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok						
Photos:	Cam. ELR Nos. 56-58	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	X									
Initial Depth to Water (m):	5.88	Purge Start Time:	10:53	Purge End Time:	11:16						
Depth to Bottom (m):	9.412	Purge Interval Time (5) min, Vol. () L	10:56	11:01	11:06	11:11	11:16				
Submerged Tubing Depth (m):	~8.5	Depth to water (m)	5.883	5.884	—	—	—				
Well Stick-up Height (m):	0.894	Temperature (°C)	3.9	2.9	3.0	2.8	2.0				
Estimated Water Volume (L):	~3.9	pH (pH Units)	6.88	6.71	6.69	6.74	6.72				
DTB – DTW) x (π ²)1000 (for well diameter) = 1 well volume (DTB – DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB – DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1719	1644	1651	1654	1661					
	Specific Cond. (µs/cm)	2912	2843	2848	2874	2862					
	Redox (mV)	77.9	91.4	92.5	99.1	101.4					
	DO (mg/L)	2.02	1.63	1.53	1.47	1.41					
	DO (%)	15.4	12.1	11.5	10.8	10.5					
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Clear.	Som.	Som.	Som.	Som.					
	Turbidity (NTU):	—	—	—	—	1.62					
	Interval Purge Volume (L):	—	0.8	0.8	0.8	0.8					
	Cumulative Purge Volume (L):	—	0.8	1.6	2.4	3.2					
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	11:16	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	X									
Sample Time	11:20										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): P96-9A
 Sample Date (Con't): Jun. 3 / 2016
 Sample Time (Con't): 11:20

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Brown sediment on tip of w6 meter when measuring DTB.
 Two wells in casing P96-9A. No markings. Sampled shorter well (i.e. PVC cut shorter), this was the only PVC with tubing already installed.

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 6"
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SIA	Project Number:	1343-005.18	Date:	01-Jun-16					
Station Status:	600D	Client:	GY - AAM	Samplers:	AN/MM					
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny					
UTM Location:	Z. 8 E. 584434 N. 6913115	Waypoint:	GPS 625 ID SIA	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok					
Photos:	Cam. ELR Nos. 28-31	Purge Method:								
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X							
Initial Depth to Water (m):	4.691	Purge Start Time:	15:49	Purge End Time:	16:11					
Depth to Bottom (m):	13.080	Purge Interval Time (5) min, Vol. () L	15:51	15:56	16:01	16:06	16:11			
Submerged Tubing Depth (m):	11.0	Depth to water (m)	4.690	4.690	4.691	—	—			
Well Stick-up Height (m):	1.318	Temperature (°C)	5.7	4.6	4.3	4.3	4.1			
Estimated Water Volume (L):	16.8	pH (pH Units)	5.95	5.80	5.78	5.77	5.78			
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations: $\frac{13.080 - 4.691}{2} \times 2 = 16.778$	Cond. (µs/cm)	1202	1160	1158	1160	1150				
	Specific Cond. (µs/cm)	1916	1910	1909	1924	1920				
	Redox (mV)	72.3	81.0	80.8	79.3	78.4				
	DO (mg/L)	1.06	0.41	0.28	0.31	0.38				
	DO (%)	8.5	3.3	2.2	2.4	2.8				
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Clear	Same	Same	Same	Same				
	Turbidity (NTU):	—	—	—	—	1.55				
	Interval Purge Volume (L):	—	1.0	1.0	0.75	0.85				
	Cumulative Purge Volume (L):	—	1.0	2.0	2.75	3.60				
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:							
Time logged on YSI (24hr):	16:12	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X							
Sample Time	16:15									

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): 52A

Sample Date (Con't): Jun. 1 / 2016

Sample Time (Con't): 16:15

General Notes (Condition of well, or other features):
Sealed with threaded PVC cap.

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:**
- 1/4" HDPE (Peristaltic) _____ ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon 6'
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120</u>	
1 L (plastic)	General Chemistry	500 ml			<u>1000</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	S1B	Project Number:	1343-005.18	Date:	01-Jun-16		
Station Status:	STON RECHARGE	Client:	GY - AAM	Samplers:	AN/MM		
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny		
UTM Location:	Z. 8 E. 584434 N. 691315	Waypoint:	GPS ID 51A	Recovery:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. <u>EXL</u> Nos. <u>022-021</u>	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X				
Initial Depth to Water (m):	4.480	Purge Start Time:	15:30	Purge End Time:	15:43		
Depth to Bottom (m):	5.140	Purge Interval Time (min), Vol. (L)	15:33	15:38	15:43	8:35	← Jun. 2/2016.
Submerged Tubing Depth (m):	~4.900	Depth to water (m)	4.771	4.843	5.140	4.511	
Well Stick-up Height (m):	1.175	Temperature (°C)	6.2	7.7	4.5	5.1	
Estimated Water Volume (L):	1.32	pH (pH Units)	6.48	6.50	6.55	6.58	
<p>DTB - DTW) x (πr²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume</p> <p>Calculations: $\frac{5.140 - 4.480}{0.660} \times 2 = 1.32$</p>	Cond. (µs/cm)	528	537	497.9	536		
	Specific Cond. (µs/cm)	825	801	804.1	859		
	Redox (mV)	56.0	73.4	81.6	122.6		
	DO (mg/L)	0.07	0.98	1.07	2.07		
	DO (%)	7.6	7.9	8.4	16.4		
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	same	same	clear		
	Turbidity (NTU):	/	/	/	938		
	Interval Purge Volume (L):	/	0.5	0.65	-		
	Cumulative Purge Volume (L):	/	0.5	1.15	-		
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	8:58	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	Jun. 2 @ 8:40						

Parameters collected following sample collection.

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): S7B
 Sample Date (Con't): Jun. 2 / 2016
 Sample Time (Con't): 8:40

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

- @15:38 increased purge speed to ~~avg~~ purge well dry; well recharge very slow, will return tomorrow to sample.
 Sample collected the following day directly without purging. @ 8:40.

Consumables:

- 1/4" HDPE (Peristaltic) 1 m. ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.6 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000.	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SZA	Project Number:	1343-005.18	Date:	June 1, 2016					
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB					
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Cloudy 10°C					
UTM Location:	Z08 E.0584469 N.613120	Waypoint:	GPS ID SZAAS	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok					
Photos:	Cam. Nos. 518-520	Purge Method:								
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	X								
Initial Depth to Water (m):	5.100	Purge Start Time:	12:34	Purge End Time:	13:00					
Depth to Bottom (m):	12.614	Purge Interval Time () min, Vol. (2) L	12:34	12:37	12:39	12:42	12:45	12:47	12:50	13:00
Submerged Tubing Depth (m):	1.230 120	Depth to water (m)	5.364	5.697	-	-	-	9.604	-	-
Well Stick-up Height (m):	1.230	Temperature (°C)	4.0	3.0	2.8	2.6	2.6	2.6	2.7	3.1
Estimated Water Volume (L):	15	pH (pH Units)	6.05	6.09	6.00	6.00	6.10	6.15	6.06	6.04
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	116	1087	1055	822	803	786	1118	1162	
	Specific Cond. (µs/cm)	1865	1849	1832	1434	1404	1372	1947	1998	
	Redox (mV)	35.7	40.2	40.7	37.7	37.9	38.4	51.8	54.6	
	DO (mg/L)	0.02	0.01	0.61	0.00	0.00	0.00	0.00	0.00	
	DO (%)	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Silty, Brown	Silty, Brown	Silty, Brown	Silty, Brown	less silty, light brown	same	less silty, light grey	same	
	Turbidity (NTU):	-	-	-	-	-	-	-	78.2 AU	
	Interval Purge Volume (L):	2	2	2	6	6	10	10	7	
	Cumulative Purge Volume (L):	2	4	6	12	18	28	38	45	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:							
Time logged on YSI (24hr):	13:00	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	X								
Sample Time	13:05									

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SZA
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): 13:05

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

- Had to remove upper 0.9m of well casing to purge well. This seems to work and doesn't require repair.

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters 1 each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1 L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SZB	Project Number:	1343-005.18	Date:	June 1, 2016				
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB				
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 10°C				
UTM Location:	ZOB E.D. 54469 N. 6913120	Waypoint:	GPS ID SZAB	Recovery:	<input type="checkbox"/> Good <input type="checkbox"/> Bad <input checked="" type="checkbox"/> Ok				
Photos:	Camera Nos. 521-523	Purge Method:							
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other			
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X						
Initial Depth to Water (m):	4.356	Purge Start Time:	13:08	Purge End Time:	13:31				
Depth to Bottom (m):	7.049	Purge Interval Time (3) min, Vol. () L	13:11	13:14	13:17	13:20	13:23	13:26	30
Submerged Tubing Depth (m):	0.465 6.4	Depth to water (m)	4.503	4.663	4.711	4.752	4.792	4.882	
Well Stick-up Height (m):	0.465	Temperature (°C)	5.1	4.2	4.6	4.6	4.4	4.6	
Estimated Water Volume (L):	5.4	pH (pH Units)	6.13	6.14	6.13	6.18	6.14	6.13	
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2026	1962	2094	2230	3855	2569		
	Specific Cond. (µs/cm)	3246	3237	3425	3658	2340	4221		
	Redox (mV)	34.5	36.6	37.5	35.0	35.9	36.5		
	DO (mg/L)	0.00	0.00	0.00	0.00	0.00	0.00		
	DO (%)	0.0	0.0	0.0	0.0	0.2	0.1		
	Appearance & Odour (Clear, Silty, HC odours, etc.)	turbid	turbid	turbid	less turbid	less turbid	less turbid		
	Turbidity (NTU):	-	-	-	-	-	27.9		
	Interval Purge Volume (L):	.1	.4	.25	.2	.2	.3		
	Cumulative Purge Volume (L):	.1	.5	.75	.95	1.15	1.45		
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:						
Time logged on YSI (24hr):	13:31	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other			
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X						
Sample Time	13:32								

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): S2B
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): 13:32

General Notes (Condition of well, or other features):
 - Good condition
 - Slow recharge

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:**
- 1/4" HDPE (Peristaltic) 2 ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon 05 ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 (ml)	
1 L (plastic)	General Chemistry	500 ml	-	-	1(L)	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	S3	Project Number:	1343-005.18	Date:	June 1, 2016
Station Status:	Missing / Destroyed	Client:	GY - AAM	Samplers:	JH + NB
Piezometer Diameter:		Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	
UTM Location:	Z. ___ E. ___ N. ___	Waypoint:	GPS ___ ID ___	Recovery:	<input type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok
Photos:	Cam. ___ Nos. ___	Purge Method:			
Duplicate Collected:	<input type="checkbox"/> Yes <input type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo Other
Field Blank Collected:	<input type="checkbox"/> Yes <input type="checkbox"/> No Name _____				
Initial Depth to Water (m):	/	Purge Start Time:	Purge End Time:		
Depth to Bottom (m):		Purge Interval Time (___) min, Vol. (___) L			
Submerged Tubing Depth (m):		Depth to water (m)			
Well Stick-up Height (m):		Temperature (°C)			
Estimated Water Volume (L):		pH (pH Units)	See Comments		
		Cond. (µs/cm)			
	Specific Cond. (µs/cm)				
	Redox (mV)				
	DO (mg/L)				
	DO (%)				
	Appearance & Odour (Clear, Silty, HC odours, etc.)				
	Turbidity (NTU):				
	Interval Purge Volume (L):				
	Cumulative Purge Volume (L):				
YSI Field Parameters Logged:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):		Waterra	Peristaltic	Disp. Bailer	Redi-flo Other
YSI Meter or Pen Unit?:	<input type="checkbox"/> YSI <input type="checkbox"/> Pen Unit				
Sample Time					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): S3
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): Destroyed

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):
 - Searched thoroughly for well using GPS + grid tactic but could not find. Engaged w/ Parsons staff who also have been unable to find it. My best guess is that road improvements have swallowed up the monitoring well, based on GPS coordinates + observations

- Consumables:**
- 1/4" HDPE (Peristaltic) _____ ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon _____ ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input type="checkbox"/> Field Filtered	<input type="checkbox"/> HNO ₃		
1 L (plastic)	General Chemistry	500 ml	-	-		

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SRK05-9	Project Number:	1343-005.18	Date:	Jun. 3/2016		
Station Status:	Good	Client:	GY - AAM	Samplers:	AN, MM		
Piezometer Diameter:	1.5"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny ~20°C		
UTM Location:	Z. 8 E. 592952 N. 6903154	Waypoint:	GPS 625 ID SRK05-9	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. ELR Nos. 59-61	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic				
Initial Depth to Water (m):	2.844	Purge Start Time:	12:20		Purge End Time:		
Depth to Bottom (m):	3.984	Purge Interval Time (S) min, Vol. (L)	12:21	12:26	12:31	12:36	12:38
Submerged Tubing Depth (m):	~3.2	Depth to water (m)	2.893	2.884	—	—	—
Well Stick-up Height (m):	0.51	Temperature (°C)	5.8	3.5	3.0	3.0	2.9
Estimated Water Volume (L):	1.25	pH (pH Units)	7.26	7.33	7.36	7.36	7.33
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1360	1246	1211	1209	1200	
	Specific Cond. (µs/cm)	2180	2121	2089	2077	2074	
	Redox (mV)	107.0	117.6	115.4	113.7	114.2	
	DO (mg/L)	6.63	5.70	5.58	5.56	5.56	
	DO (%)	52.3	43.4	41.5	41.5	41.2	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	Same	Same	Same	Same	
	Turbidity (NTU):	—	—	—	—	0.70	
	Interval Purge Volume (L):	—	1.0	1.25	1.25	0.5	
	Cumulative Purge Volume (L):	—	1.0	2.25	3.5	4.0	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	12:39	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		Peristaltic				
Sample Time	12:40						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK05-9
 Sample Date (Con't): Jun. 3/2016
 Sample Time (Con't): 12:40

General Notes (Condition of well, or other features):
 Transducer removed @ 11:55 (Jun. 3/2016).
 Transducer replaced @ 12:47 (Jun. 3/2016).

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:**
- 1/4" HDPE (Peristaltic) 3.0 m
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon 6"
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	100	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

73' 7.2" = 73.6' * 0.3048 = 22.433m
 14' 9.1" = 4.498m



GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SRK05-SP-4A	Project Number:	1343-005.18	Date:	June 1, 2016						
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + MB						
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sun + cloud / 10°C						
UTM Location:	Z.08 E.0584499 N.6913109	Waypoint:	GPS Hem ID SRK05-SP-4A	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok						
Photos:	Cam. Hem Nos. 509-511	Purge Method:									
Duplicate Collected:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name Dupl	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Name FBI		X								
Initial Depth to Water (m):	4.498	Purge Start Time:	10:01	Purge End Time:	10:27						
Depth to Bottom (m):	22.433	Purge Interval Time (5) min, Vol. () L	10:03	10:08	10:13	10:18	10:23				
Submerged Tubing Depth (m):	21.8	Depth to water (m)	4.503	4.503	4.503	4.503	—				
Well Stick-up Height (m):	0.698m	Temperature (°C)	3.6	3.2	3.1	2.9	2.9				
Estimated Water Volume (L):	35.87	pH (pH Units)	5.91	5.87	5.89	5.97	5.89				
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	718	703	701	695	693					
	Specific Cond. (µs/cm)	1228	1206	1206	1203	1198					
	Redox (mV)	59.4	33.7	34.0	33.2	33.6					
	DO (mg/L)	0.03	0.0	0.0	0.01	0.00					
	DO (%)	0.3	0.0	0.0	0.0	0.0					
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	clear					
	Turbidity (NTU):	—	—	—	—	6.01					
	Interval Purge Volume (L):	0.2	0.4	0.5	0.5	0.5					
	Cumulative Purge Volume (L):	0.2	0.6	1.1	1.6	2.1					
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	10:27	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X								
Sample Time	10:27										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK05-SP-4A
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): 10:27

General Notes (Condition of well, or other features):

good condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 mL</u>	<u>Dipped</u>
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1L</u>	<u>Dipped</u>

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SRK05-SP-4B	Project Number:	1343-005.18	Date:	June 1, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 11°C	
UTM Location:	Z08 E.0584499 N.6913116	Waypoint:	GPS Hem ID SRK05-SP-4B	Recovery:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Hem Nos. 512-514	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	3.995	Purge Start Time:	10:49	Purge End Time:	10:56	
Depth to Bottom (m):	4.727	Purge Interval Time (3) min, Vol. () L	10:52 10:55			
Submerged Tubing Depth (m):	4.4	Depth to water (m)	4.069 4.121			
Well Stick-up Height (m):	0.82	Temperature (°C)	3.4 2.8	* Switched to direct sample		
Estimated Water Volume (L):	1.46	pH (pH Units)	5.90 5.79			
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	5561 5488				
	Specific Cond. (µs/cm)	9529 9526				
	Redox (mV)	70.2 69.6				
	DO (mg/L)	0.01 0.01				
	DO (%)	0.1 0.1				
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear clear				
	Turbidity (NTU):	- 9.49				
	Interval Purge Volume (L):	0.25 0.25				
	Cumulative Purge Volume (L):	0.25 0.5				
	YSI Field Parameters Logged:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	-	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	10:56					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK05-SF-4B
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): 16:56

General Notes (Condition of well, or other features):
 - Switched to direct sample after observing
 no recharge during purging.

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:**
- 1/4" HDPE (Peristaltic) 2 ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon 0.5 ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>110 mL</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>850 mL</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SRK05-SP5	Project Number:	1343-005.18	Date:	June 1, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 15°C	
UTM Location:	Z.08 E.054468 N.6913128	Waypoint:	GPS ID SRK05-SP5	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Nos. 524-526	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	7.406	Purge Start Time:	13:48	Purge End Time:	14:09	
Depth to Bottom (m):	14.719	Purge Interval Time (5) min, Vol. () L	13:53	13:58	14:03	14:08
Submerged Tubing Depth (m):	14.0	Depth to water (m)	6.807	6.812	6.812	6.817
Well Stick-up Height (m):	0.98	Temperature (°C)	6.0	6.7	6.7	6.65
Estimated Water Volume (L):	14.5	pH (pH Units)	5.67	5.65	5.65	5.66
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	6877	7008	7010	6999	
	Specific Cond. (µs/cm)	10746	10787	10832	10838	
	Redox (mV)	109.9	135.0	148.9	152.9	
	DO (mg/L)	0	0	0	0	
	DO (%)	0	0	0.1	0	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	8.44	
	Interval Purge Volume (L):	.4	.4	.5	.3	
	Cumulative Purge Volume (L):	.4	.8	1.3	1.6	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	14:09	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	14:10					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK05-SP5
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): 11:10

General Notes (Condition of well, or other features):

Good condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 mL</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1L</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SKK08-SBR2	Project Number:	1343-005.18	Date:	June 1, 2016						
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB						
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny 16°C						
UTM Location:	Z.08 E. 0584476 N. 6913120	Waypoint:	GPS iten ID SKK08-SBR2	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok						
Photos:	Cam. Nos. 515-517	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X								
Initial Depth to Water (m):	6.563	Purge Start Time:	11:20	Purge End Time:							
Depth to Bottom (m):	19.065	Purge Interval Time (5) min, Vol. () L	11:23	11:28	11:33	11:38	11:43				
Submerged Tubing Depth (m):	18.3	Depth to water (m)	6.72	6.73	6.72	6.73	6.72				
Well Stick-up Height (m):	1.060	Temperature (°C)	6.8	4.4	4.8	4.4	4.05				
Estimated Water Volume (L):	25	pH (pH Units)	5.90	5.82	5.84	5.85	5.84				
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1580	1360	1333	1305	1309					
	Specific Cond. (µs/cm)	2509	2243	2172	2151	2159					
	Redox (mV)	114.6	121.7	193.9	205.4	214.2					
	DO (mg/L)	0.03	0.00	0.00	0.00	0.1					
	DO (%)	0.1	0.0	0.0	0.0	0.0					
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	clear					
	Turbidity (NTU):	-	-	-	-	18.9					
	Interval Purge Volume (L):	.35	.5	.5	.5	.5					
	Cumulative Purge Volume (L):	.35	.85	1.35	1.85	2.35					
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	11:44	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X								
Sample Time	11:45										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK08-SBR2
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): 11:45

General Notes (Condition of well, or other features):
 Well installed on angle but in good condition.

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 ml	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SKK08-SBR3	Project Number:	1343-005.18	Date:	See 1, 2016	
Station Status:	Dry	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sun + cloud / 13°C	
UTM Location:	Z08 E.05 84395 N. 6913156	Waypoint:	GPS then ID SKK08-SBR3	Recovery:	<input type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. 10 Nos. 530-532	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____					
Initial Depth to Water (m):	Dry	Purge Start Time:		Purge End Time:		
Depth to Bottom (m):	13.208	Purge Interval Time () min, Vol. () L				
Submerged Tubing Depth (m):	/	Depth to water (m)				
Well Stick-up Height (m):	0.98	Temperature (°C)				
Estimated Water Volume (L):	Q	pH (pH Units)				
DTB - DTW x (πr ² 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)					
	Specific Cond. (µs/cm)					
	Redox (mV)					
	DO (mg/L)					
	DO (%)					
	Appearance & Odour (Clear, Silty, HC odours, etc.)					
	Turbidity (NTU):					
	Interval Purge Volume (L):					
	Cumulative Purge Volume (L):					
	YSI Field Parameters Logged:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):		Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input type="checkbox"/> YSI <input type="checkbox"/> Pen Unit					
Sample Time						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK08-SBR3
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): Not Sampled

General Notes (Condition of well, or other features):

- Well is dry
 - Not Sampled

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input type="checkbox"/> Field Filtered	<input type="checkbox"/> HNO ₃		
1 L (plastic)	General Chemistry	500 ml	-	-		

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SRK08-SBR4	Project Number:	1343-005.18	Date:	June 1, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sun + cloud 12°C	
UTM Location:	Z08 E. 0584446 N. 6913135	Waypoint:	GPS Pen ID SRK08-SBR4	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Pen Nos. 527-529	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	7.229	Purge Start Time:	14:34	Purge End Time:	14:52	
Depth to Bottom (m):	21.209	Purge Interval Time (5) min, Vol. () L	14:37	14:42	14:46	14:50
Submerged Tubing Depth (m):	20.5	Depth to water (m)	7.236	7.236	7.236	7.236
Well Stick-up Height (m):	0.57	Temperature (°C)	4.7	5.0	5.2	5.0
Estimated Water Volume (L):	28	pH (pH Units)	5.88	5.77	5.78	5.77
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	5770	5778	5787	5760	
	Specific Cond. (µs/cm)	9425	9350	9327	9307	
	Redox (mV)	155.9	156.6	155.7	155.0	
	DO (mg/L)	0	0	0	0	
	DO (%)	0	0	0	0.1	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	-	1.95
	Interval Purge Volume (L):	.25	.5	.45	.3	
	Cumulative Purge Volume (L):	.25	.75	1.25	1.55	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	14:52	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	14:53					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK08-SAR4
 Sample Date (Con't): June 1, 2016
 Sample Time (Con't): 14:53

General Notes (Condition of well, or other features):

Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 20.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 mL</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1 L</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SRK08-SP-7A	Project Number:	1343-005.18	Date:	Jun. 1/2016						
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN, MM						
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Cloudy ~16°C.						
UTM Location:	Z. 8 E. 584437 N. 6913093	Waypoint:	GPS 625 ID Site 10	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok						
Photos:	Cam. ER Nos. 23-27	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Manual									
Initial Depth to Water (m):	2.637	Purge Start Time:	14:28	Purge End Time:							
Depth to Bottom (m):	17.776	Purge Interval Time () min, Vol. (13) L	14:31	14:34	14:41	14:45	14:49	14:55	14:59		
Submerged Tubing Depth (m):	~15	Depth to water (m)	2.880	4.960	2.960	2.960	2.960	2.960	2.960		
Well Stick-up Height (m):	1.05	Temperature (°C)	2.4	2.4	2.8	2.6	2.5	3.1	2.5		
Estimated Water Volume (L):	15.139 30.378	pH (pH Units)	6.04	6.15	6.18	6.31	6.23	6.14	6.27		
<p>DTB - DTW) x (πr²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume</p> <p>Calculations: $17.776 \times 2 = 35.552$ $35.552 - 1.05 = 34.502$ $34.502 \times 0.89 = 30.738$</p>	Cond. (µs/cm)	794	735	723	710	704	722	715			
	Specific Cond. (µs/cm)	1395	1292	1254	1241	1232	1241	1253			
	Redox (mV)	42.1	42.0	41.3	38.1	41.8	43.9	44.8			
	DO (mg/L)	1.03	1.39	1.92	0.89	0.86	1.21	0.87			
	DO (%)	7.7	10.2	14.3	6.4	6.1	9.0	6.80			
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Very turbid	same	same	clearer	same (turbid)	same	same			
	Turbidity (NTU):	—	—	—	—	—	—	40.3			
	Interval Purge Volume (L):	13	13	13	13	13	13	13			
	Cumulative Purge Volume (L):	13	26	39	52	65	78	91			
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	15:00	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	Manual									
Sample Time	15:00 15:00										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK08-SP7A

Sample Date (Con't): 1-Jun-16

Sample Time (Con't): 15:00

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

-waterra + peri present in well
removed b/c too short

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) 18.7 # m
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves 1 each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1,000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	SRK08-SP-7B	Project Number:	1343-005.18	Date:	Jun. 1 / 2016					
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN, MM					
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Cloudy ~ 18°C					
UTM Location:	Z. 8 E. 584436 N. 6713099	Waypoint:	GPS 625 ID site 1D	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok					
Photos:	Cam. ELR Nos. 23-27	Purge Method:								
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X							
Initial Depth to Water (m):	2.714	Purge Start Time:	13:44	Purge End Time:	14:11					
Depth to Bottom (m):	8.753	Purge Interval Time (Σ) min, Vol. () L	13:46	13:51	13:56	14:01	14:06	14:11		
Submerged Tubing Depth (m):	~ 7.0	Depth to water (m)	2.717	2.723	2.720	2.725	2.720	2.721		
Well Stick-up Height (m):	1.135	Temperature (°C)	3.4	3.0	2.6	2.6	2.8	2.6		
Estimated Water Volume (L):	12.078	pH (pH Units)	6.70	6.44	6.41	6.45	6.49	6.50		
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	151.2	132.5	132.5	134.6	136.7	136.2			
	Specific Cond. (µs/cm)	258.9	228.7	231.6	235.8	237.5	238.3			
	Redox (mV)	16.9	28.0	25.9	19.7	15.2	12.2			
	DO (mg/L)	0.68	0.16	0.14	0.12	0.11	0.11			
	DO (%)	4.3	1.2	1.0	1.0	0.8	0.8			
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Brown sus. Solids turbid	clear	clear	Same	Same	Same			
	Turbidity (NTU):	—	—	—	—	—	4.87			
	Interval Purge Volume (L):	0.4	1.0	1.0	1.0	1.2	1.5			
	Cumulative Purge Volume (L):	0.4	1.4	2.4	3.4	4.6	6.1			
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:							
Time logged on YSI (24hr):	14:13	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X							
Sample Time	14:15									

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): SRK08-SP-7B

Sample Date (Con't): Jun. 1 / 2016

Sample Time (Con't): 14:15

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Consumables:

- 1/4" HDPE (Peristaltic) 2.5 m
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 6"
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X16A	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	1.5"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sun + cloud 12	
UTM Location:	Z. 9 E. 057944 N. 6914842	Waypoint:	GPS ID X16AB	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Mem Nos. 556-558	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	3.503	Purge Start Time:	14:00	Purge End Time:	14:18	
Depth to Bottom (m):	5.357	Purge Interval Time (S) min, Vol. (L)	14:02	14:07	14:12	14:17
Submerged Tubing Depth (m):	5.0	Depth to water (m)	3.505	3.503	3.505	3.505
Well Stick-up Height (m):	0.82	Temperature (°C)	5.1	4.7	4.5	4.3
Estimated Water Volume (L):	2.0 2.04	pH (pH Units)	7.74	7.71	7.72	7.71
DTB – DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB – DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB – DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	233.2	225	202.1	220.2	
	Specific Cond. (µs/cm)	376.8	368.4	325.4	364.3	
	Redox (mV)	-9.1	-14.6	-9.2	-5.6	
	DO (mg/L)	2.87	2.44	2.51	2.65	
	DO (%)	22.4	19.4	19.5	20.6	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	0.47	
	Interval Purge Volume (L):	.2	.5	.6	.7	
	Cumulative Purge Volume (L):	.2	.7	1.3	2.0	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	14:18	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	14:20					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X16A
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 14:20

General Notes (Condition of well, or other features):

Good condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 20 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	100 120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X16B	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	3"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	sun + cloud 12°C	
UTM Location:	Z. 8 E. 0579441 N. 6914942	Waypoint:	GPS Hex ID X16A13	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Nos. 558-560	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	HydroLIFT				
Initial Depth to Water (m):	3.683	Purge Start Time:	14:36	Purge End Time:	14:55	
Depth to Bottom (m):	14.783	Purge Interval Time () min, Vol. (10) L	14:39	14:45	14:49	14:53
Submerged Tubing Depth (m):	14.0	Depth to water (m)	3.693	3.698	3.700	
Well Stick-up Height (m):	1.05	Temperature (°C)	3.7	3.2	3.2	3.1
Estimated Water Volume (L):	55	pH (pH Units)	7.73	7.83	7.84	7.86
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	244.5	240.6	241.0	240.5	
	Specific Cond. (µs/cm)	412.3	412.5	412.7	412.7	
	Redox (mV)	21.0	18.7	17.6	17.8	
	DO (mg/L)	6.60	5.15	5.53	4.97	
	DO (%)	50.0	39.0	41.2	37.1	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	slight turbid	slightly turbid	slightly turbid	slightly turbid	
	Turbidity (NTU):	-	-	-	8.97	
	Interval Purge Volume (L):	10	10	10	10	
	Cumulative Purge Volume (L):	10	20	36	40	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	14:54	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	HydroLIFT				
Sample Time	14:55					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X16B
 Sample Date (Con't): June 2 2016
 Sample Time (Con't): 14:55

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):
 - There's a broken joint approx 2m below top with some intruding bentonite. At this point fixing the well would require digging down to the break (at 1.5m) and replace the top portion; or, re-drilling the well. However, the water quality is still clear, thus the repair is not eminent.

- Consumables:**
- 1/4" HDPE (Peristaltic) _____ ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) 50 ft.
 - 1/4" Silicon _____ ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 mL	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X17A	Project Number:	1343-005.18	Date:	3-Jun-16						
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN/NB/JH/MM						
Piezometer Diameter:	1.5"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	overcast, slight breeze						
UTM Location:	Z. 8VE. 8579755N. 601464E	Waypoint:	GPS ID X17AB	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok						
Photos:	Cam. ELL Nos. 594-597	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X								
Initial Depth to Water (m):	2.285 2.285	Purge Start Time:	15:58	Purge End Time:	16:25						
Depth to Bottom (m):	6.090	Purge Interval Time (5) min, Vol. () L	16:00	16:05	16:10	16:15	16:20	16:25			
Submerged Tubing Depth (m):	~5	Depth to water (m)	2.284	2.285	2.287	2.287	2.287				
Well Stick-up Height (m):	0.85	Temperature (°C)	5.3	3.7	3.9	3.9	4.0	3.6			
Estimated Water Volume (L):	7.7	pH (pH Units)	6.87	7.23	7.24	7.24	7.25	7.25			
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations: $\begin{array}{r} 5.1 \times 8 \\ 6.090 \\ 2.285 \\ \hline 3.805 \end{array} \times 7.710$	Cond. (µs/cm)	507	4009	382.4	379.5	378.8	374.6				
	Specific Cond. (µs/cm)	816	675.2	640.0	634.2	633.5	634.3				
	Redox (mV)	-53.2	-34.2	-11.5	-1.9	0.5	-9.0				
	DO (mg/L)	0.74	0.21	0.15	0.13	0.14	0.11				
	DO (%)	5.5	1.6	1.1	1.0	1.1	0.9				
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	clear	clear				
	Turbidity (NTU):	/	X	/	/	/	0.03				
	Interval Purge Volume (L):	/	0.6	0.6	0.6	0.6	0.6				
	Cumulative Purge Volume (L):	/	0.6	1.1	1.7	2.3	2.9				
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	16:25	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X								
Sample Time	16:30										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X17A

 Sample Date (Con't): 30 3-20-16

 Sample Time (Con't): 16:30

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Consumables:

- 1/4" HDPE (Peristaltic) 7.5 ~~ft.~~
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	100	
1 L (plastic)	General Chemistry	500 ml	-	-	1600	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X17B	Project Number:	1343-005.18	Date:	3-Jun-16					
Station Status:	GOOD	Client:	GY - AAM	Samplers:	JH/NB/AN/MM					
Piezometer Diameter:	3"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	overcast, windy					
UTM Location:	Z. S.E. 857035 N. 6014248	Waypoint:	GPS ID X17AB	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok					
Photos:	Cam. # Nos. 598-600	Purge Method:								
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Manual								
Initial Depth to Water (m):	1.850	Purge Start Time:	16:35	Purge End Time:	16:47					
Depth to Bottom (m):	22.410	Purge Interval Time () min, Vol. (10) L	16:35	16:37	16:38	16:40	16:41	16:43	16:45	16:47
Submerged Tubing Depth (m):	21.4	Depth to water (m)	1.840	/	1.870	/	/	/	/	/
Well Stick-up Height (m):	0.49	Temperature (°C)	3.8	3.3	3.1	3.1	3.1	3.0	3.1	3.1
Estimated Water Volume (L):	123	pH (pH Units)	6.82	6.84	6.89	6.88	6.89	6.92	6.88	6.88
<p>DTB - DTW) x (πr²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume</p> <p>Calculations: 20.558</p>	Cond. (µs/cm)	1171	1130	1094	1042	987	937	932	913	
	Specific Cond. (µs/cm)	1964	1895	1871	1784	1691	1607	1596	1576	
	Redox (mV)	-61.3	-71.8	-76.1	-72.2	-80.0	-79.4	-68.2	-68.4	
	DO (mg/L)	1.05	0.60	1.27	1.70	1.09	1.19	0.38	0.20	
	DO (%)	8.0	4.5	9.8	5.1	8.4	8.9	3.0	1.5	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Sulphur odour green iron	same	same	same	same	same	same	same	
	Turbidity (NTU)	Au	/	/	/	/	/	/	914 Au	
	Interval Purge Volume (L):	10	10	10	10	10	10	10	10	
	Cumulative Purge Volume (L):	10	20	30	40	50	60	70	80	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:							
Time logged on YSI (24hr):	16:48	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other				
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	Manual								
Sample Time	17:00									

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X17B

 Sample Date (Con't): 3-Jun-16

 Sample Time (Con't): 17:00

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

- well stick-up is missing the upper half (~80cm), well does not need repair

Consumables:

- 1/4" HDPE (Peristaltic) _____ ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) 23 m ft.
- 1/4" Silicon _____ ft.
- 0.45 micron inline filters 4 each
- D-25 (2" well) foot valves 1 each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1,000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X18A	Project Number:	1343-005.18	Date:	Jun. 2/2016		
Station Status:	Good	Client:	GY - AAM	Samplers:	AN, MM		
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny ~ 20°C		
UTM Location:	Z.08 E. 0579981 N. 6914717	Waypoint:	GPS ELRID X18AB	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok		
Photos:	Cam. ___ Nos. 050-52	Purge Method:					
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X				
Initial Depth to Water (m):	4.009	Purge Start Time:	15:14	Purge End Time:	15:35		
Depth to Bottom (m):	9.465	Purge Interval Time (5) min, Vol. () L	15:15	15:20	15:25	15:30	15:35
Submerged Tubing Depth (m):	~ 8	Depth to water (m)	4.331	4.610	4.566	4.590	4.590
Well Stick-up Height (m):	0.62	Temperature (°C)	4.1	3.3	3.8	3.8	3.9
Estimated Water Volume (L):	10.912 6.0	pH (pH Units)	6.83	6.77	6.80	6.79	6.79
DTB - DTW x (πr ² 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations: $\frac{9.465}{4.009} \times 1.1 = 6.0$ $\frac{9.465}{4.009} \times 2 = 10.912$ 5.456	Cond. (µs/cm)	1023	1023	1002	1006	1010	
	Specific Cond. (µs/cm)	1216	1676	1683	1693	1689	
	Redox (mV)	-28.3	-34.1	-35.6	-36.6	-38.0	
	DO (mg/L)	1.73	1.24	0.87	0.55	0.29	
	DO (%)	13.1	9.7	6.5	4.1	2.2	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	Clear	Clear some sulphur smell	same	same	same	
	Turbidity (NTU):	/	/	/	/	2.01	
	Interval Purge Volume (L):	/	1.2	0.7	0.6	0.65	
	Cumulative Purge Volume (L):	/	1.2	1.9	2.2	2.85	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:				
Time logged on YSI (24hr):	15:36	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other	
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X				
Sample Time	15:40						

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X18A

Sample Date (Con't): 2-Jun-16

Sample Time (Con't): 15:40

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):

Consumables:

- 1/4" HDPE (Peristaltic) 9.5 m
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1,000</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X18B	Project Number:	1343-005.18	Date:	Jun. 2/2016						
Station Status:	GOOD	Client:	GY - AAM	Samplers:	AN, MM						
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	Sunny ~20°C						
UTM Location:	Z. 98 E. 0679981 N. 6914717	Waypoint:	GPS ELRID X18AB	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok						
Photos:	Cam. # R Nos. 650-052	Purge Method:									
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X								
Initial Depth to Water (m):	3.800	Purge Start Time:	15:50	Purge End Time:	16:16						
Depth to Bottom (m):	10.739	Purge Interval Time (5) min, Vol. () L	15:51	15:56	16:01	16:06	16:11	16:16			
Submerged Tubing Depth (m):	~8	Depth to water (m)	3.840	3.840	3.840	3.840	3.840	3.840			
Well Stick-up Height (m):	0.65	Temperature (°C)	4.0	3.7	3.7	3.4	3.5	3.4			
Estimated Water Volume (L):	7.6	pH (pH Units)	6.80	6.75	6.78	6.76	6.75	6.76			
DTB - DTW x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations: $\frac{10.1739}{3.800} \times 1.1 = 7.6329$	Cond. (µs/cm)	880	1080	1089	1088	1092	1093				
	Specific Cond. (µs/cm)	1521	1826	1846	1851	1849	1860				
	Redox (mV)	-25.0	-3.3	6.8	6.1	18.2	0.6				
	DO (mg/L)	1.78	1.15	0.92	0.74	0.45	0.32				
	DO (%)	13.3	8.9	7.0	5.6	3.4	2.3				
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	slight sulfur odour	same	same	same	same				
	Turbidity (NTU):	/	/	/	/	/	0.76				
	Interval Purge Volume (L):	/	0.75	0.70	0.70	0.70	6.70				
	Cumulative Purge Volume (L):	/	0.75	1.45	2.15	2.85	3.55				
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:								
Time logged on YSI (24hr):	16:16	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X								
Sample Time	16:20										

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X18B

Sample Date (Con't): 2-Jun-16

Sample Time (Con't): 16:20

General Notes (Condition of well, or other features):

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

- Consumables:**
- 1/4" HDPE (Peristaltic) _____ ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon _____ ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other _____
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120	
1 L (plastic)	General Chemistry	500 ml	-	-	1000	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X24-96A	Project Number:	1343-005.18	Date:	June 2, 2016					
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB					
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	light rain 8°C					
UTM Location:	Z33 E.0530547 N.6914302	Waypoint:	GPS ID X24-96A	Recovery:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/> Ok					
Photos:	Cam. Mem Nos. 536-538	Purge Method:								
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo					
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	HydroLIFT								
Initial Depth to Water (m):	2.525	Purge Start Time:	8:52	Purge End Time:	9:24					
Depth to Bottom (m):	28.372	Purge Interval Time () min, Vol. (L)	8:55	9:02	9:09	9:17	9:22			
Submerged Tubing Depth (m):	27.5	Depth to water (m)	6.955	10.516	16.093	19.9	24.29			
Well Stick-up Height (m):	0.45	Temperature (°C)	3.8	3.8	3.6	3.7	3.4			
Estimated Water Volume (L):	51	pH (pH Units)	6.14	6.12	6.12	6.15	6.17			
DTB - DTW) x (πr ²)1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	2279	2280	2272	2325	2278				
	Specific Cond. (µs/cm)	3624	3834	3843	3922	3969				
	Redox (mV)	-46.1	-27.3	-9.9	-13.3	-15.4				
	DO (mg/L)	3.44	1.90	1.87	2.45	2.44				
	DO (%)	63.1	14.5	14.4	13.8	18.6				
	Appearance & Odour (Clear, Silty, HC odours, etc.)	turbid clear	turbid clear	turbid clear	turbid clear	turbid clear				
	Turbidity (NTU):	-	-	-	-	25.0				
	Interval Purge Volume (L):	10L	10L	10L	10L	10L				
	Cumulative Purge Volume (L):	10L	20L	30L	40L	50L				
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:							
Time logged on YSI (24hr):	9:24	Waterra	Peristaltic	Disp. Bailer	Redi-flo					
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit	HydroLIFT								
Sample Time	9:25									

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X24-96D
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 9:25

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

General Notes (Condition of well, or other features):
 - Cement Footing of well begin to get undermined by erosion. To fix, need 1 shovel, 1 bag of cement + soil to rebuild the mound/base.
 - Otherwise well in good condition, although slow recharge
 - Put a new well cap on.

- Consumables:**
- 1/4" HDPE (Peristaltic) _____ ft.
 - 3/8" HDPE (Microwaterra) _____ ft.
 - 5/8" HDPE (Waterra) _____ ft.
 - 1/4" Silicon _____ ft.
 - 0.45 micron inline filters _____ each
 - D-25 (2" well) foot valves _____ each
 - D-16 (1" well) foot valves _____ each
 - SS-10 (5/8" well) foot valves _____ each
 - 1" HDPE Bailer _____ each
 - 2" HDPE Bailer _____ each
 - Other 2" well cap
 - Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	120 ml	
1 L (plastic)	General Chemistry	500 ml	-	-	1L	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X25-96 A	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 11°C	
UTM Location:	Z08 E6580413 N.644122	Waypoint:	GPS ID X25-96AB	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Nos. 542-544	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	1.908	Purge Start Time:	10:24	Purge End Time:	10:42	
Depth to Bottom (m):	9.489	Purge Interval Time (Σ) min, Vol. (L)	10:27	10:32	10:37	10:42
Submerged Tubing Depth (m):	8.8	Depth to water (m)	1.908	1.908	1.908	1.908
Well Stick-up Height (m):	0.48	Temperature (°C)	5.0	4.6	4.6	4.7
Estimated Water Volume (L):	15.16	pH (pH Units)	6.94	6.91	6.90	6.92
DTB – DTW) x (πr ² 1000 (for well diameter) = 1 well volume (DTB – DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB – DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1212	1176	1160	1164	
	Specific Cond. (µs/cm)	1764	1927	1980	1845	
	Redox (mV)	-66.3	-62.8	-62.9	-63.8	
	DO (mg/L)	0.48	0.21	0.14	0.11	
	DO (%)	3.4	1.6	1.2	1.0	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	1.52	
	Interval Purge Volume (L):	.2	.5	.6	.5	
	Cumulative Purge Volume (L):	.2	.7	1.3	1.8	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	10:42	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	10:45					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X25-96-A
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 16:43

General Notes (Condition of well, or other features):

Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 ml</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1L</u>	

GROUNDWATER SAMPLE COLLECTION SHEET

Sample Site:	X25-96 B	Project Number:	1343-005.18	Date:	June 2, 2016	
Station Status:	Good	Client:	GY - AAM	Samplers:	JH + NB	
Piezometer Diameter:	2"	Project Name:	Faro 2016 GW Spring Sampling Program	Weather/Temperature:	cloudy 11°C	
UTM Location:	ZC3 E. 0580413 N. 6914122	Waypoint:	GPS ID X25-96A B	Recovery:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> Ok	
Photos:	Cam. Mem Nos. 545-547	Purge Method:				
Duplicate Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
Field Blank Collected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name _____		X			
Initial Depth to Water (m):	1.778 1.816	Purge Start Time:	10:52		Purge End Time:	11:11
Depth to Bottom (m):	19.698	Purge Interval Time (S) min, Vol. (L)	10:54	10:59	11:04	11:09
Submerged Tubing Depth (m):	19.0	Depth to water (m)	1.762	1.762	1.762	1.762
Well Stick-up Height (m):	0.45	Temperature (°C)	5.1	4.5	4.4	4.4
Estimated Water Volume (L):	35.8	pH (pH Units)	7.56	7.55	7.56	7.56
DTB - DTW x (πr ² × 1000 (for well diameter) = 1 well volume (DTB - DTW) x 8.1 (for 4" well diameter) = 1 well volume (DTB - DTW) x 2 (for 2" well diameter) = 1 well volume (DTB-DTW) x 1.1 (for 1.5" diameter) = 1 well volume (DTB-DTW) x 0.5 (for 1" diameter) = 1 well volume Calculations:	Cond. (µs/cm)	1160	1162	1158	1158	
	Specific Cond. (µs/cm)	1900	1910	1909	1910	
	Redox (mV)	-104.2	-112.3	-116.2	-118.4	
	DO (mg/L)	1.65	0.15	0.08	0.81	
	DO (%)	13.2	1.1	0.8	0.7	
	Appearance & Odour (Clear, Silty, HC odours, etc.)	clear	clear	clear	clear	
	Turbidity (NTU):	-	-	-	0.64	
	Interval Purge Volume (L):	.1	.7	.7	.7	
	Cumulative Purge Volume (L):	.1	.8	1.5	2.2	
	YSI Field Parameters Logged:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Method:			
Time logged on YSI (24hr):	11:11	Waterra	Peristaltic	Disp. Bailer	Redi-flo	Other
YSI Meter or Pen Unit?:	<input checked="" type="checkbox"/> YSI <input type="checkbox"/> Pen Unit		X			
Sample Time	11:12					

*Field parameters are considered stable when the following criteria have been met; temperature ±3%, pH ±0.1, conductivity ±3%, redox ±10%, DO ±10%, turbidity 50 NTU.

Sample Site (Con't): X25-96B
 Sample Date (Con't): June 2, 2016
 Sample Time (Con't): 11:12

General Notes (Condition of well, or other features):

Good Condition

Additional Purge Data:									
Purge Interval Time () min, Vol. () L									
Depth to water (m)									
Temperature (°C)									
pH (pH Units)									
Cond. (µs/cm)									
Specific Cond. (µs/cm)									
Redox (mV)									
DO (mg/L)									
DO (%)									
Appearance & Odour (Clear, Silty, HC odours, etc.)									
Turbidity (NTU)									
Interval Purge Volume (L)									
Cumulative Purge Volume (L):									

Consumables:

- 1/4" HDPE (Peristaltic) 2 ft.
- 3/8" HDPE (Microwaterra) _____ ft.
- 5/8" HDPE (Waterra) _____ ft.
- 1/4" Silicon 0.5 ft.
- 0.45 micron inline filters _____ each
- D-25 (2" well) foot valves _____ each
- D-16 (1" well) foot valves _____ each
- SS-10 (5/8" well) foot valves _____ each
- 1" HDPE Bailer _____ each
- 2" HDPE Bailer _____ each
- Other _____
- Other _____

Sample Collection

Bottle Type	Parameters Analyzed	Min. Volume	Treatment <input checked="" type="checkbox"/>	Preservative Added <input checked="" type="checkbox"/>	Vol. Collected (ml)	Comments
120 ml (plastic)	Dissolved Metals	100 ml	<input checked="" type="checkbox"/> Field Filtered	<input checked="" type="checkbox"/> HNO ₃	<u>120 ml</u>	
1 L (plastic)	General Chemistry	500 ml	-	-	<u>1L</u>	