

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 28, 2016
Project Location:	Salisbury, NC	Purge Time:	65 Minutes
Project Number:	7126-16-032A	Sample Date:	September 28, 2016
Source Well:	GWA-20S	Sample Time:	12:35
Locked?:	Yes	Weather:	Partly Cloudy
Sampled By:	James Waters	Air Temp:	80 ° F
Flow Through Cell Serial No.:	15C101918	Pump Serial No.:	PRO1527
		Calibration Date:	September 28, 2016

Water Level & Well Data

Measuring Point: Top of Casing				Well Volume			
Depth to Water:		8.89		Well Diameter		2 inch	
Total Well Depth:		16.70		Water Volume		1.3 Gal	
Height of Water Column:		7.81		3 * Well Volume		3.82 Gal	
Screen Length:		10 feet		5 * Well Volume		6.37 Gal	
Stickup:		2.7					
		ft-GRD					

Well Purging Information

Purge Method:		Peristaltic Pump		Start Time:	11:30	End Time:	12:35
(If Used)	Bladder Pump Control Settings:	On (sec):		Off (sec):		Pressure:	
Pump Intake Depth from Top of Casing:		14					
Water Column Above Pump Intake:		5.11		Flow Through Cell Vol:		500 mL	
DTW-TOC at 25% Drawdown of WC Above Pump:		10.17					
Final Volume Purged:		2.7		Comments:			
Final Volume Purge Rate:		150					
Well Purged Dry?:		No		(Yes/No)			

Field Parameters (Taken at time intervals with purge volumes ≥ 2 Flow Through Cell Volumes)

Time	Volume Purged (gal)	Flow Rate (mL/min)	Depth to Water (ft)	Temp (°C)	pH (s.u.)	Spec. Cond. (µS/cm)	Dissolved Oxygen (mg/L)	ORP* (mV)	Turbidity (NTU)	Comment
11:30	0.0									Start Purging
11:35	0.3	200	9.30	18.8	6.6	505	1.0	-11	11.6	
11:40	0.5	200	9.39	18.7	6.2	347	0.6	4	10.7	
11:45	0.7	150	9.36	18.8	6.2	297	0.5	8	12.5	
11:50	0.9	150	9.35	19.0	6.3	287	0.5	3	7.24	
11:55	1.1	150	9.35	18.9	6.4	278	0.6	2	9.24	
12:00	1.3	150	9.35	18.9	6.4	273	0.6	5	9.56	
12:05	1.5	150	9.35	18.8	6.4	271	0.7	7	6.88	
12:10	1.7	150	9.35	18.9	6.4	271	0.7	9	5.29	
12:15	1.9	150	9.35	18.9	6.5	271	0.6	8	5.56	
12:20	2.1	150	9.35	19.0	6.4	271	0.6	8	4.12	
12:25	2.3	150	9.35	19.0	6.4	271	0.7	8	4.99	
12:30	2.5	150	9.35	19.1	6.5	271	0.7	8	4.66	
12:35	2.7	150	9.35	19.2	6.5	271	0.7	8	5.01	Sampling Time

Final: 12:35 2.7 150 9.35 19.2 6.5 271 0.7 8 5.0 End of Purging

Sample Method: Peristaltic Pump **Sample Start Time:** 12:35 **Sample End Time:** 13:30

Analytical Data

Method	Qty	Container	Preservative	Method	Qty	Container	Preservative
TSS	1	PET	Ice	TOC	3	Glass	Phosphoric Acid
TDS	1	PET	Ice	Nitrate-Nitrite	1	PET	H2SO4
Methane RSK-175	3	Glass	HCl	Radium 226 & 228	3	PET	HNO3
Cl, SO4	1	PET	Ice	Metals- Total	1	HDPE	HNO3
Alkalinity, Bicarbonate, Carbonate	1	PET	Ice	Metals - Dissolved	1	HDPE	HNO3
Sulfate	1	PET	Zinc Acetate/ NaOH	Hex Chromium 218.7	1	PET	(NH4)2 SO4 & NH4OH

Name	Signature	Date
(1) James Waters	_____	9/29/2016
(2)	_____	_____

Notes: To convert ORP to Eh, add 205 mv to ORP.