

# Low Flow Groundwater Sampling Field Form



<b>Project Name:</b>	Buck Steam Station		<b>Purge Date:</b>	September 29, 2016
<b>Project Location:</b>	Salisbury, NC		<b>Purge Time:</b>	30 Minutes
<b>Project Number:</b>	7126-16-032A		<b>Sample Date:</b>	September 29, 2016
<b>Source Well:</b>	MW-12S		<b>Sample Time:</b>	16:10
<b>Locked?:</b>	Yes		<b>Weather:</b>	Mix of Sun/Clouds
<b>Sampled By:</b>	Darren Cox		<b>Air Temp:</b>	75 ° F
<b>Flow Through Cell Serial No.:</b>	16F1002208	<b>Pump Serial No.:</b>	1155	<b>Calibration Date:</b> September 29, 2016

## Water Level & Well Data

<b>Measuring Point:</b>	Top of Casing		
<b>Depth to Water:</b>	7.88	ft-TOC	
<b>Total Well Depth:</b>	20.80	ft-TOC	
<b>Height of Water Column:</b>	12.92	feet	
<b>Screen Length:</b>	15	feet	<b>Stickup:</b> 2.8 ft-GRD

<b>Well Volume</b>		
<b>Well Diameter</b>	2	inch
<b>Water Volume</b>	2.1	Gal
<b>3 * Well Volume</b>	6.33	Gal
<b>5 * Well Volume</b>	10.54	Gal

## Well Purging Information

<b>Purge Method:</b>	Bladder Pump	<b>Start Time:</b>	15:35	<b>End Time:</b>	16:05
<b>(If Used) Bladder Pump Control Settings:</b>	<b>On (sec):</b> 4	<b>Off (sec):</b>	6	<b>Pressure:</b>	25 psi
<b>Pump Intake Depth from Top of Casing:</b>	18	ft-TOC			
<b>Water Column Above Pump Intake:</b>	10.42	feet			
<b>DTW-TOC at 25% Drawdown of WC Above Pump:</b>	10.49	ft-TOC			
<b>Final Volume Purged:</b>	1.1	Gallons			
<b>Final Volume Purge Rate:</b>	125	mL/min			
<b>Well Purged Dry?:</b>	No	(Yes/No)			

Used YSI Pro Plus

## 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
15:35	0.0	175								Start Purging
15:40	0.2	175	8.50	18.5	6.0	76	3.2	262	24.7	
15:45	0.5	175	8.53	18.7	6.1	76	3.2	261	20.7	
15:55	0.8	125	8.61	18.8	6.1	75	3.1	262	9.79	
16:00	1.0	125	8.61	18.8	6.1	74	3.1	271	8.65	
16:05	1.1	125	8.61	18.9	6.1	75	3.1	274	9.13	

**Final:** 16:05 1.1 125 8.61 18.9 6.1 75 3.1 274 9.1 End of Purging

**Sample Method:** Bladder Pump

**Sample Start Time:** 16:10

**Sample End Time:** 17:00

## 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) Darren Cox		9/29/2016
(2) Bryan Wence		9/29/2016

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