

# 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>	35 Minutes	
<b>Project Number:</b>	7126-16-032A		<b>Sample Date:</b>	September 29, 2016	
<b>Source Well:</b>	MW-8D		<b>Sample Time:</b>	10:50	
<b>Locked?:</b>	Yes		<b>Weather:</b>	Overcast	
<b>Sampled By:</b>	Darren Cox		<b>Air Temp:</b>	70s ° F	
<b>Flow Through Cell Serial No.:</b>	15C100211	<b>Pump Serial No.:</b>	1519	<b>Calibration Date:</b>	September 29, 2016

## Water Level & Well Data

<b>Measuring Point:</b>	Top of Casing		
<b>Depth to Water:</b>	7.98	ft-TOC	
<b>Total Well Depth:</b>	63.50	ft-TOC	
<b>Height of Water Column:</b>	55.52	feet	
<b>Screen Length:</b>	5	feet	<b>Stickup:</b> 2.5 ft-GRD

<b>Well Volume</b>		
<b>Well Diameter</b>	2	inch
<b>Water Volume</b>	9.1	Gal
<b>3 * Well Volume</b>	27.18	Gal
<b>5 * Well Volume</b>	45.30	Gal

## Well Purging Information

Purge Method:		Bladder Pump		Start Time:	10:10	End Time:	10:45	
(If Used)	Bladder Pump Control Settings:	On (sec):	8.5	Off (sec):	6.5	Pressure:	70	psi
Pump Intake Depth from Top of Casing:		61		ft-TOC				
Water Column Above Pump Intake:		53.02		feet	Flow Through Cell Vol:		200	mL
DTW-TOC at 25% Drawdown of WC Above Pump:		21.24		ft-TOC	Comments:			
Final Volume Purged:		1.8		Gallons	Used YSI Pro Plus			
Final Volume Purge Rate:		200		mL/min				
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
10:10		200								Start Purging
10:20	0.5	200	8.14	18.0	6.0	156	0.2	203	0.70	
10:25	0.8	200	8.16	17.7	6.0	146	0.2	228	0.65	
10:30	1.1	200	8.18	17.5	5.9	145	0.2	243	1.33	
10:35	1.3	200	8.18	17.6	5.9	144	0.2	252	2.41	
10:40	1.6	200	8.18	17.4	5.9	145	0.2	257	1.75	
10:45	1.8	200	8.18	17.2	5.9	144	0.2	262	2.23	

**Final:** 10:45 1.8 200 8.18 17.2 5.9 144 0.2 262 2.2 End of Purging

**Sample Method:** Bladder Pump

**Sample Start Time:** 10:50

**Sample End Time:** 11:40

## 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

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.