Low Flow Groundwater Sampling Field Form

S&ME

Project Name:	Buck Steam Station			**Purge Date:**	September 28, 2016
Project Location:	Salisbury, NC			**Purge Time:**	30 Minutes
Project Number:	7126-16-032A			**Sample Date:**	September 28, 2016
Source Well:	GWA-15S			**Sample Time:**	14:55
Locked?:	Yes			**Weather:**	Mix of Sun/Clouds
Sampled By:	Darren Cox			**Air Temp:**	80 ° F
Flow Through Cell Serial No.:	15C100211	**Pump Serial No.:**	1155	**Calibration Date:**	September 28, 2016

Water Level & Well Data

			Measuring Point:	Top of Casing	
			Depth to Water:	9.70	ft-TOC
			Total Well Depth:	20.80	ft-TOC
			Height of Water Column:	11.10	feet
Screen Length:	10	feet	**Stickup:**	2.8	ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	1.8	Gal
3 * Well Volume	5.43	Gal
5 * Well Volume	9.06	Gal

Well Purging Information

		Purge Method:	Bladder Pump	**Start Time:**	14:20	**End Time:**	14:50
(If Used)	**Bladder Pump Control Settings:**	**On (sec):**	6	**Off (sec):**	14	**Pressure:**	20 psi
		Pump Intake Depth from Top of Casing:	18	ft-TOC			
		Water Column Above Pump Intake:	8.60	feet	**Flow Through Cell Vol:**	200	mL
		DTW-TOC at 25% Drawdown of WC Above Pump:	11.85	ft-TOC	**Comments:**		
		Final Volume Purged:	0.8	Gallons	Used YSI Pro Plus		
		Final Volume Purge Rate:	100	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
	14:20	0.0	100								Start Purging
	14:30	0.3	100	10.13	23.1	5.0	67	1.0	286	1.54	
	14:35	0.4	100	10.10	23.6	5.0	66	2.3	282	2.40	
	14:40	0.5	100	10.12	23.4	4.9	66	0.3	284	1.10	
	14:45	0.7	100	10.12	23.6	4.9	64	0.3	287	2.41	
	14:50	0.8	100	10.12	23.6	4.9	63	0.3	286	2.59	
Final:	14:50	0.8	100	10.12	23.6	4.9	63	0.3	286	2.6	End of Purging

Sample Method: Bladder Pump **Sample Start Time:** 14:55 **Sample End Time:** 15:50

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		9/28/2016
(2)	Bryan Wence		9/28/2016

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

Form Revision Date: 9/19/16 12:23