Low Flow Groundwater Sampling Field Form

S&ME

Project Name:	Buck Steam Station			**Purge Date:**	September 28, 2016
Project Location:	Salisbury, NC			**Purge Time:**	70 Minutes
Project Number:	7126-16-032A			**Sample Date:**	September 28, 2016
Source Well:	GWA-14D			**Sample Time:**	11:20
Locked?:	Yes			**Weather:**	Mix of Sun/Clouds
Sampled By:	Darren Cox			**Air Temp:**	70s ° F
Flow Through Cell Serial No.:	15C100211	**Pump Serial No.:**	1519	**Calibration Date:**	September 28, 2016

Water Level & Well Data

Measuring Point:				Top of Casing	
Depth to Water:				11.10	ft-TOC
Total Well Depth:				66.50	ft-TOC
Height of Water Column:				55.40	feet
Screen Length:	5	feet	**Stickup:**	2.8	ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	9.0	Gal
3 * Well Volume	27.12	Gal
5 * Well Volume	45.20	Gal

Well Purging Information

Purge Method:		Bladder Pump	**Start Time:**	10:05	**End Time:**	11:15	
(If Used)	**Bladder Pump Control Settings:**	**On (sec):** 10	**Off (sec):**	5	**Pressure:**	18	psi
Pump Intake Depth from Top of Casing:		64	ft-TOC				
Water Column Above Pump Intake:		52.90	feet	**Flow Through Cell Vol:**		200	mL
DTW-TOC at 25% Drawdown of WC Above Pump:		24.33	ft-TOC	**Comments:**			
Final Volume Purged:		2.2	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
	10:05										Start Purging
	10:25	0.8	150	20.86	18.4	12.4	4,493	0.2	160	5.59	
	10:30	1.0	150	21.34	18.3	12.4	4,490	0.2	118	8.39	
	10:35	1.2	150	22.20	18.1	12.3	4,502	0.2	130	4.27	
	10:40	1.3	100	23.12	18.1	12.3	4,497	0.2	118	4.60	
	10:45	1.5	100	23.85	18.1	12.4	4,498	0.2	115	1.63	
	10:50	1.6	100	24.68	18.4	12.4	4,489	0.2	139	1.29	
	10:55	1.7	100	25.42	18.3	12.4	4,494	0.2	144	2.74	
	11:00	1.8	100	26.26	18.4	12.3	4,495	0.2	118	4.75	
	11:05	2.0	100	26.96	18.6	12.3	4,490	0.2	115	5.09	
	11:10	2.1	100	27.62	18.6	12.3	4,492	0.2	111	2.67	
	11:15	2.2	100	28.27	18.6	12.3	4,488	0.2	109	1.29	
Final:	11:15	2.2	100	28.27	18.6	12.3	4,488	0.2	109	1.3	End of Purging

Sample Method: Bladder Pump **Sample Start Time:** 11:20 **Sample End Time:** 12:40

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		9/28/2016
(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