Low Flow Groundwater Sampling Field Form

S&ME

Project Name:	Buck Steam Station	**Purge Date:**	September 28, 2016
Project Location:	Salisbury, NC	**Purge Time:**	55 Minutes
Project Number:	7126-16-032A	**Sample Date:**	September 28, 2016
Source Well:	GWA-20D	**Sample Time:**	12:40
Locked?:	Yes	**Weather:**	cloudy
Sampled By:	Travis O'Quinn	**Air Temp:**	70's ° F
Flow Through Cell Serial No.:	**Pump Serial No.:** 24768	**Calibration Date:**	September 27, 2016

Water Level & Well Data

			Measuring Point:	Top of Casing	
			Depth to Water:	8.54	ft-TOC
			Total Well Depth:	45.55	ft-TOC
			Height of Water Column:	37.01	feet
Screen Length:	5	feet	**Stickup:**	2.85	ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	6.0	Gal
3 * Well Volume	18.12	Gal
5 * Well Volume	30.20	Gal

Well Purging Information

		Purge Method:	Submersible Pump	**Start Time:**	11:40	**End Time:**	12:35
(If Used)	**Bladder Pump Control Settings:**	**On (sec):**		**Off (sec):**		**Pressure:**	psi
		Pump Intake Depth from Top of Casing:	43	ft-TOC			
		Water Column Above Pump Intake:	34.51	feet	**Flow Through Cell Vol:**	500	mL
		DTW-TOC at 25% Drawdown of WC Above Pump:	17.17	ft-TOC	**Comments:**		
		Final Volume Purged:	3.6	Gallons	Used YSI Pro Plus		
		Final Volume Purge Rate:	250	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
	11:40	0.0									Start Purging
	11:45	0.3	250	8.87	18.0	6.7	359	0.0	-109	120	
	11:50	0.7	250	8.85	17.8	6.8	364	0.0	-117	120	
	11:55	1.0	250	8.85	18.1	7.0	364	0.0	-126	55.9	
	12:00	1.3	250	8.87	17.9	7.1	363	0.0	-130	34.1	
	12:05	1.7	250	8.87	18.7	7.1	362	0.0	-132	20.4	recal DO
	12:20	2.6	250	8.81	18.7	7.1	371	0.0	-145	10.7	
	12:25	3.0	250	8.81	18.9	7.0	367	0.0	-153	4.26	
	12:30	3.3	250	8.81	18.9	7.1	365	0.0	-156	6.57	
	12:35	3.6	250	8.81	18.3	7.1	361	0.1	-156	5.05	
Final:	12:35	3.6	250	8.81	18.3	7.1	361	0.1	-156	5.1	End of Purging

Sample Method: Submersible Pump **Sample Start Time:** 12:40 **Sample End Time:** 16:17

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)	Travis O'Quinn		9/28/2016
(2)			

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

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