Low Flow Groundwater Sampling Field Form

S&ME

Project Name:	Buck Steam Station			**Purge Date:**	September 28, 2016
Project Location:	Salisbury, NC			**Purge Time:**	90 Minutes
Project Number:	7126-16-032A			**Sample Date:**	September 28, 2016
Source Well:	GWA-17S			**Sample Time:**	16:00
Locked?:	yes			**Weather:**	Sunny
Sampled By:	James Waters			**Air Temp:**	80 ° F
Flow Through Cell Serial No.:	15C101918	**Pump Serial No.:**	PRO1527	**Calibration Date:**	September 28, 2016

Water Level & Well Data

Measuring Point:				Top of Casing	
Depth to Water:				36.44	ft-TOC
Total Well Depth:				41.00	ft-TOC
Height of Water Column:				4.56	feet
Screen Length:	10	feet	**Stickup:**	3	ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	0.7	Gal
3 * Well Volume	2.23	Gal
5 * Well Volume	3.72	Gal

Well Purging Information

Purge Method:		Submersible Pump	**Start Time:**	14:30	**End Time:**	16:00	
(If Used)	**Bladder Pump Control Settings:**	**On (sec):**		**Off (sec):**		**Pressure:**	psi
Pump Intake Depth from Top of Casing:		40	ft-TOC				
Water Column Above Pump Intake:		3.56	feet		**Flow Through Cell Vol:**	500	mL
DTW-TOC at 25% Drawdown of WC Above Pump:		37.33	ft-TOC		**Comments:**		
Final Volume Purged:		2.8	Gallons				
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
	14:30	0.0									Start Purging
	14:35	0.3	200	37.70	19.0	6.5	280	0.5	-75	388	
	14:40	0.5	200	37.14	19.0	6.5	287	0.3	-115	447	
	14:45	0.7	150	37.17	19.7	6.5	281	0.3	-122	334	
	14:50	0.9	150	37.31	19.8	6.5	270	0.4	-108	196	
	14:55	1.1	100	37.29	20.1	6.4	253	0.5	-90	114	
	15:00	1.2	100	37.17	20.7	6.5	252	0.5	-91	80.1	
	15:05	1.3	100	37.14	21.4	6.5	251	0.6	-86	76.0	
	15:10	1.5	100	37.03	21.9	6.5	248	0.6	-55	40.0	
	15:15	1.6	100	36.99	22.3	6.5	245	0.6	-59	36.9	
	15:20	1.7	100	36.98	21.1	6.4	236	0.9	-45	29.6	
	15:25	1.8	100	36.99	21.1	6.4	234	0.9	-42	20.0	
	15:30	2.0	100	36.99	21.3	6.4	231	1.0	-35	18.8	
	15:35	2.1	100	36.99	21.3	6.4	229	0.9	-22	13.5	
	15:40	2.2	100	36.99	21.4	6.4	223	1.2	-10	16.4	
	15:45	2.4	100	36.99	21.2	6.4	221	1.0	-7	11.7	
	15:50	2.5	100	36.99	21.3	6.4	220	1.0	-3	9.4	
	15:55	2.6	100	36.99	21.4	6.4	218	1.0	3	9.2	
	16:00	2.8	100	36.99	21.4	6.4	217	1.1	3	9.0	Sampling Time
Final:	16:00	2.8	100	36.99	21.4	6.4	217	1.1	3	9.0	End of Purging

Sample Method: Peristaltic Pump **Sample Start Time:** 16:00 **Sample End Time:** 16:05

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

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

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